

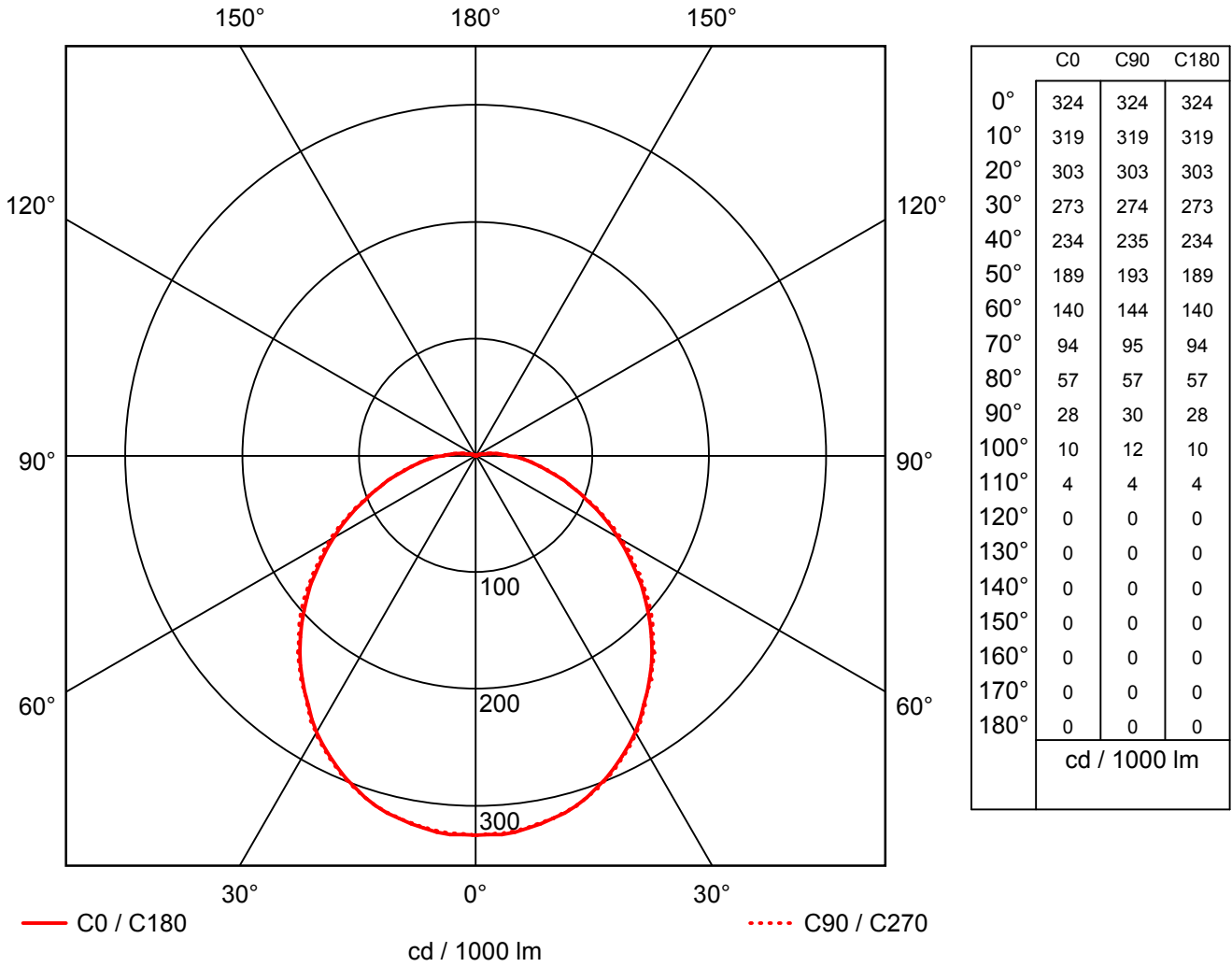
Object :
 Installation :
 Project number :
 Date : 22.07.2015



Luminaire data

NVC LIGHTING LTD, PORTLAND AMENITY 15w L... (PORTLAND AMENIT...).

LDC



Manufacturer	: NVC LIGHTING LTD	Efficiency factor	: 100% (A41)
Order number	: PORTLAND AMENITY 15w LED/M3	Light distribution	: asymmetric
Luminaire name	: PORTLAND AMENITY 15w LED/M3	Beam Angle	: 55.5° C0
Equipment	: 1 x 64 PC LED PANEL 0 W / 104 lm		: 56.1° C90
Dimensions	: D 325 mm x H 100 mm		: 55.5° C180
File name	: NPOLED15WM3.ltd		: 56.1° C270

filename : PORTLAND AMENITY 64PC LED.LDT
 meas. number : 3119
 luminaire number : PORTLAND AMENITY 64PC LED
 date / operator : 20-06-2013

default lamp type(s)

no of lamps	lamp type	luminaire lumens	input wattage
1	64 PC LED PANEL	1040 lm	15.1 W

dimensions

luminaire	luminous area
diameter : 325 mm	diameter : 260 mm
height : 100 mm	height : 40 mm

coordinate system

no of planes : 24	samples / plane : 37
first c-plane : 0.0 °	first gamma-angle : 0.0 °
step angle : 15.0 °	step angle : 5.0 °
last c-plane : 345.0 °	last gamma-angle : 180.0 °
symmetrics : symmetric	

performance

light output ratio : 100.0 %
 DFF : 96.8 %
 UFF : 3.2 %

classification

LiTG / DIN : A41
 UTE : 0.97E+0.03T
 CIE : 45 75 92 97 100
 BZ : 5 5 5 5 5 5 5 5

Ambient Temperature : 25 degC

Input Voltage : 240 V

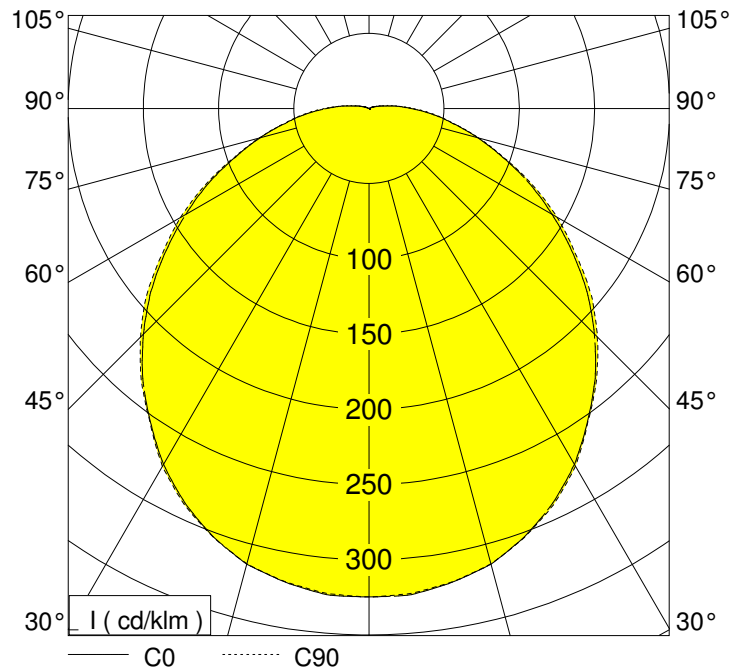
Circuit Watts : 15.1 W

Amps (running) : 0.105 A

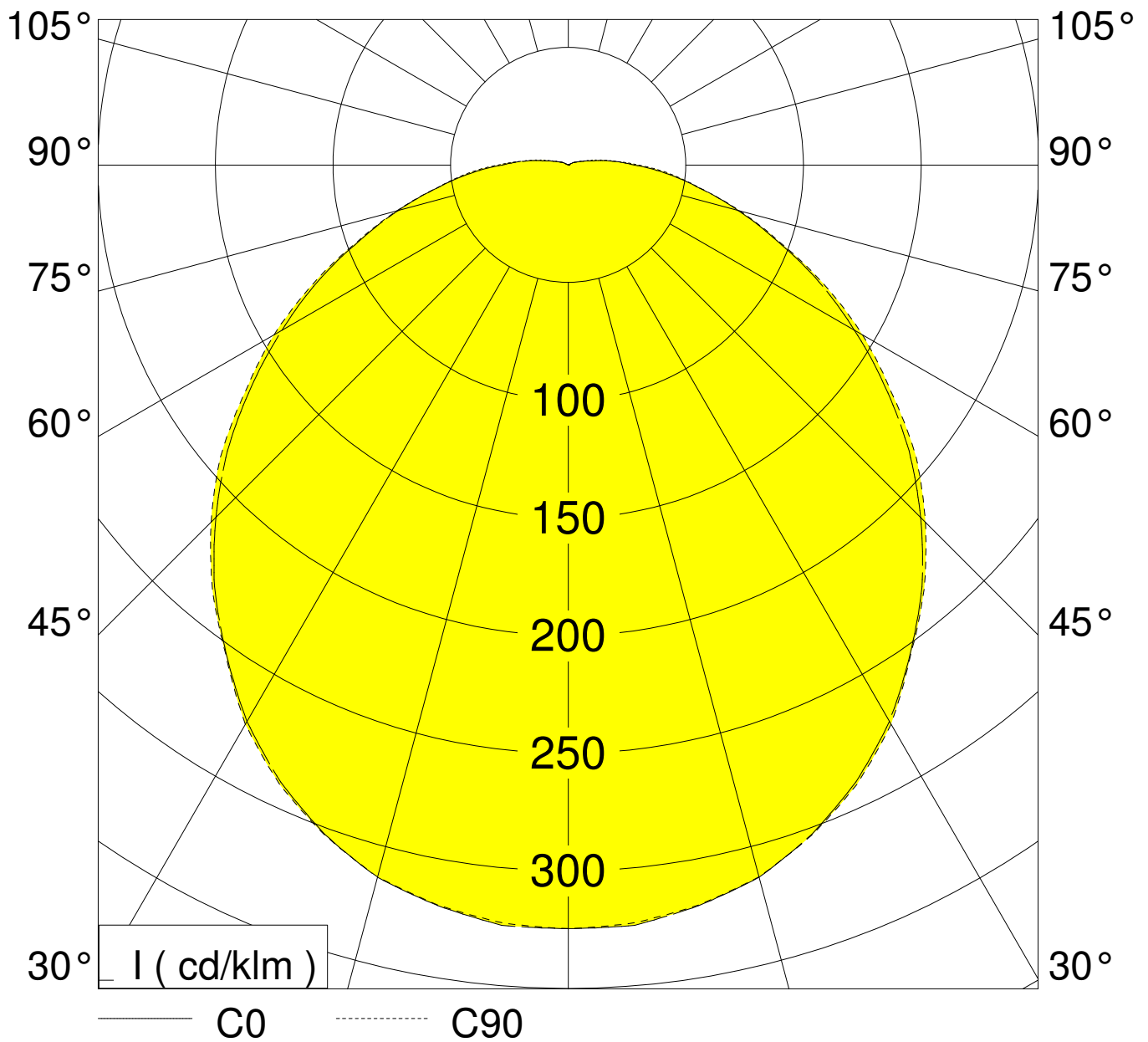
V.A. : 25.16 VA

Power Factor : 0.60

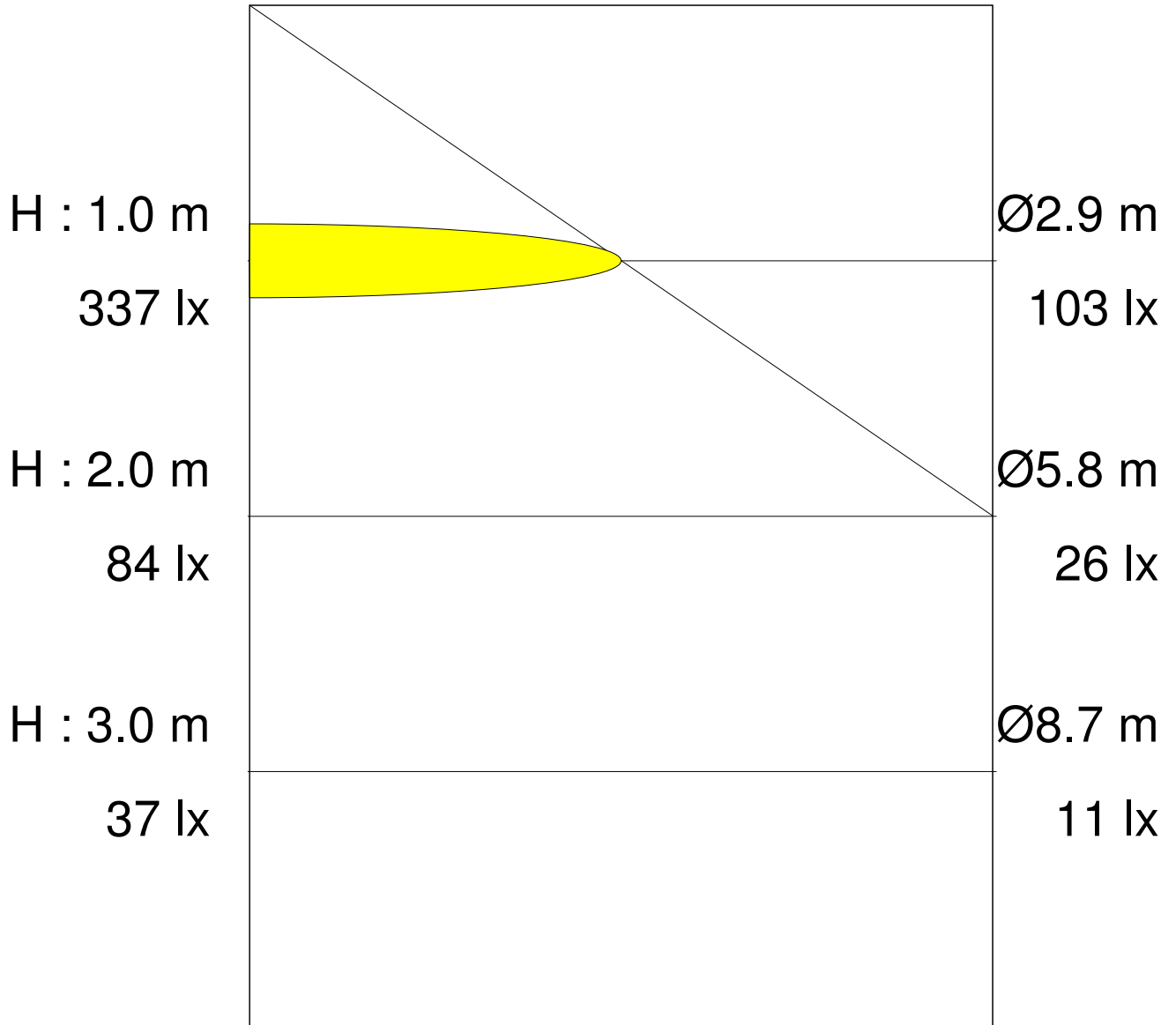
CCT : 4134K (measured)



Measurements made are in absolute units
 The luminaire is treated as if it was a lamp as it is not possible to measure each LED separately - hence an LOR of 100%
 The Light output ratio in real terms would be less than 100%. If it was possible to compare real LED lumens with the total output from the luminaire we could obtain an actual LOR
 This also means that the total lumens emitted from the LED's would be greater than the 1040 lumens measured.
 In reality the LED lumens would approximate to this value divided by the actual Light Output



Half peak divergence : 111.0°



PORTLAND AMENITY 64PC LED / PORTLAND AMENITY 64PC LED

intensity table

	C 0.0	C 15.0	C 30.0	C 45.0	C 60.0	C 75.0	C 90.0	C 105.0
0.0°	324.30	324.30	324.30	324.30	324.30	324.30	324.30	324.30
5.0°	324.10	323.60	323.10	323.30	323.50	323.30	323.10	323.30
10.0°	319.40	318.90	318.50	318.60	318.70	318.90	319.10	318.90
15.0°	313.20	313.00	312.80	312.80	312.80	312.90	313.00	312.90
20.0°	302.50	302.80	303.00	302.60	302.10	302.40	302.80	302.40
25.0°	289.10	289.50	289.80	290.10	290.40	290.30	290.20	290.30
30.0°	272.90	272.60	272.30	272.90	273.50	273.90	274.30	273.90
35.0°	253.30	253.40	253.60	255.30	257.00	255.30	253.70	255.30
40.0°	233.80	234.10	234.40	235.40	236.50	235.80	235.20	235.80
45.0°	211.70	212.70	213.80	214.10	214.40	214.50	214.60	214.50
50.0°	189.00	188.80	188.70	188.90	189.20	191.10	192.90	191.10
55.0°	164.40	164.20	164.10	164.70	165.40	166.30	167.30	166.30
60.0°	140.40	141.00	141.60	142.70	143.70	144.10	144.40	144.10
65.0°	117.60	116.80	116.10	119.10	122.10	121.00	119.80	121.00
70.0°	94.40	95.30	96.20	96.40	96.60	96.00	95.40	96.00
75.0°	74.80	75.20	75.60	75.70	75.80	75.60	75.40	75.60
80.0°	56.60	56.20	55.90	56.90	57.80	57.30	56.80	57.30
85.0°	42.00	41.10	40.20	41.90	43.60	43.50	43.40	43.50
90.0°	28.00	28.00	28.00	29.50	30.90	30.40	29.90	30.40
95.0°	19.00	19.10	19.10	18.40	17.70	18.50	19.20	18.50
100.0°	10.30	11.00	11.70	11.50	11.30	11.80	12.20	11.80
105.0°	6.20	6.70	7.20	7.00	6.80	6.70	6.60	6.70
110.0°	3.70	4.00	4.30	4.40	4.50	4.20	3.90	4.20
115.0°	2.50	2.80	3.10	3.20	3.30	3.20	3.10	3.20
120.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	cd / klm							

PORTLAND AMENITY 64PC LED / PORTLAND AMENITY 64PC LED

intensity table

	C 120.0	C 135.0	C 150.0	C 165.0	C 180.0	C 195.0	C 210.0	C 225.0
0.0°	324.30	324.30	324.30	324.30	324.30	324.30	324.30	324.30
5.0°	323.50	323.30	323.10	323.60	324.10	323.60	323.10	323.30
10.0°	318.70	318.60	318.50	318.90	319.40	318.90	318.50	318.60
15.0°	312.80	312.80	312.80	313.00	313.20	313.00	312.80	312.80
20.0°	302.10	302.60	303.00	302.80	302.50	302.80	303.00	302.60
25.0°	290.40	290.10	289.80	289.50	289.10	289.50	289.80	290.10
30.0°	273.50	272.90	272.30	272.60	272.90	272.60	272.30	272.90
35.0°	257.00	255.30	253.60	253.40	253.30	253.40	253.60	255.30
40.0°	236.50	235.40	234.40	234.10	233.80	234.10	234.40	235.40
45.0°	214.40	214.10	213.80	212.70	211.70	212.70	213.80	214.10
50.0°	189.20	188.90	188.70	188.80	189.00	188.80	188.70	188.90
55.0°	165.40	164.70	164.10	164.20	164.40	164.20	164.10	164.70
60.0°	143.70	142.70	141.60	141.00	140.40	141.00	141.60	142.70
65.0°	122.10	119.10	116.10	116.80	117.60	116.80	116.10	119.10
70.0°	96.60	96.40	96.20	95.30	94.40	95.30	96.20	96.40
75.0°	75.80	75.70	75.60	75.20	74.80	75.20	75.60	75.70
80.0°	57.80	56.90	55.90	56.20	56.60	56.20	55.90	56.90
85.0°	43.60	41.90	40.20	41.10	42.00	41.10	40.20	41.90
90.0°	30.90	29.50	28.00	28.00	28.00	28.00	28.00	29.50
95.0°	17.70	18.40	19.10	19.10	19.00	19.10	19.10	18.40
100.0°	11.30	11.50	11.70	11.00	10.30	11.00	11.70	11.50
105.0°	6.80	7.00	7.20	6.70	6.20	6.70	7.20	7.00
110.0°	4.50	4.40	4.30	4.00	3.70	4.00	4.30	4.40
115.0°	3.30	3.20	3.10	2.80	2.50	2.80	3.10	3.20
120.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	cd / klm							

PORTLAND AMENITY 64PC LED / PORTLAND AMENITY 64PC LED

intensity table

	C 240.0	C 255.0	C 270.0	C 285.0	C 300.0	C 315.0	C 330.0	C 345.0
0.0°	324.30	324.30	324.30	324.30	324.30	324.30	324.30	324.30
5.0°	323.50	323.30	323.10	323.30	323.50	323.30	323.10	323.60
10.0°	318.70	318.90	319.10	318.90	318.70	318.60	318.50	318.90
15.0°	312.80	312.90	313.00	312.90	312.80	312.80	312.80	313.00
20.0°	302.10	302.40	302.80	302.40	302.10	302.60	303.00	302.80
25.0°	290.40	290.30	290.20	290.30	290.40	290.10	289.80	289.50
30.0°	273.50	273.90	274.30	273.90	273.50	272.90	272.30	272.60
35.0°	257.00	255.30	253.70	255.30	257.00	255.30	253.60	253.40
40.0°	236.50	235.80	235.20	235.80	236.50	235.40	234.40	234.10
45.0°	214.40	214.50	214.60	214.50	214.40	214.10	213.80	212.70
50.0°	189.20	191.10	192.90	191.10	189.20	188.90	188.70	188.80
55.0°	165.40	166.30	167.30	166.30	165.40	164.70	164.10	164.20
60.0°	143.70	144.10	144.40	144.10	143.70	142.70	141.60	141.00
65.0°	122.10	121.00	119.80	121.00	122.10	119.10	116.10	116.80
70.0°	96.60	96.00	95.40	96.00	96.60	96.40	96.20	95.30
75.0°	75.80	75.60	75.40	75.60	75.80	75.70	75.60	75.20
80.0°	57.80	57.30	56.80	57.30	57.80	56.90	55.90	56.20
85.0°	43.60	43.50	43.40	43.50	43.60	41.90	40.20	41.10
90.0°	30.90	30.40	29.90	30.40	30.90	29.50	28.00	28.00
95.0°	17.70	18.50	19.20	18.50	17.70	18.40	19.10	19.10
100.0°	11.30	11.80	12.20	11.80	11.30	11.50	11.70	11.00
105.0°	6.80	6.70	6.60	6.70	6.80	7.00	7.20	6.70
110.0°	4.50	4.20	3.90	4.20	4.50	4.40	4.30	4.00
115.0°	3.30	3.20	3.10	3.20	3.30	3.20	3.10	2.80
120.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	cd / klm							

glare rating according to UGR											
ρ-ceiling	70	70	50	50	30	70	70	50	50	30	
ρ-walls	50	30	50	30	30	50	30	50	30	30	
ρ-workplane	20	20	20	20	20	20	20	20	20	20	
room dimensions X Y	viewed crosswise					viewed endwise					
2H	2H	17.7	19.2	18.0	19.4	19.7	17.8	19.3	18.1	19.5	19.8
	3H	18.7	19.9	19.0	20.1	20.3	18.8	20.0	19.1	20.2	20.5
	4H	19.4	20.6	19.7	20.8	21.1	19.5	20.7	19.8	20.9	21.2
	6H	20.0	21.1	20.4	21.4	21.7	20.1	21.2	20.5	21.5	21.8
	8H	20.3	21.4	20.7	21.7	22.0	20.4	21.5	20.8	21.8	22.1
	12H	20.6	21.7	21.0	22.0	22.4	20.7	21.8	21.1	22.1	22.5
4H	2H	17.9	19.0	18.2	19.3	19.6	18.0	19.1	18.3	19.4	19.6
	3H	19.7	20.8	20.1	21.1	21.5	19.8	20.9	20.2	21.2	21.6
	4H	20.7	21.7	21.1	22.1	22.4	20.8	21.8	21.2	22.2	22.5
	6H	21.2	22.1	21.6	22.5	22.9	21.3	22.2	21.7	22.6	22.9
	8H	21.6	22.4	22.0	22.8	23.2	21.7	22.5	22.1	22.9	23.3
	12H	22.1	22.9	22.6	23.3	23.8	22.2	23.0	22.7	23.4	23.9
8H	4H	20.9	21.7	21.3	22.1	22.5	20.9	21.8	21.4	22.2	22.6
	6H	22.1	22.8	22.6	23.3	23.8	22.1	22.9	22.7	23.4	23.9
	8H	22.6	23.4	23.2	23.9	24.5	22.7	23.5	23.3	24.0	24.6
	12H	23.0	23.6	23.5	24.1	24.7	23.1	23.7	23.7	24.3	24.8
12H	4H	21.1	21.9	21.6	22.3	22.8	21.2	22.0	21.6	22.4	22.9
	6H	22.3	23.0	22.8	23.5	24.1	22.4	23.1	22.9	23.6	24.2
	8H	22.7	23.3	23.3	23.9	24.4	22.8	23.4	23.4	24.0	24.5
variation of observer position											
S =	1.0H	+0.1/			-0.1		+0.1/		-0.1		
	1.5H	+0.2/			-0.3		+0.2/		-0.3		
	2.0H	+0.3/			-0.5		+0.3/		-0.5		
standard-table	BK07					BK07					
correction for luminaire	5.6					5.7					
correct glare indices for a total flux of 1040lm											

class		glare rating for service value of illuminance (lx)									
A	A	1000	750	500	--	≤ 300					
1	B	2000	1500	1000	750	500	≤ 300				
2	D					2000	1000	500	≤ 300		
3	E						2000	1000	500	≤ 300	

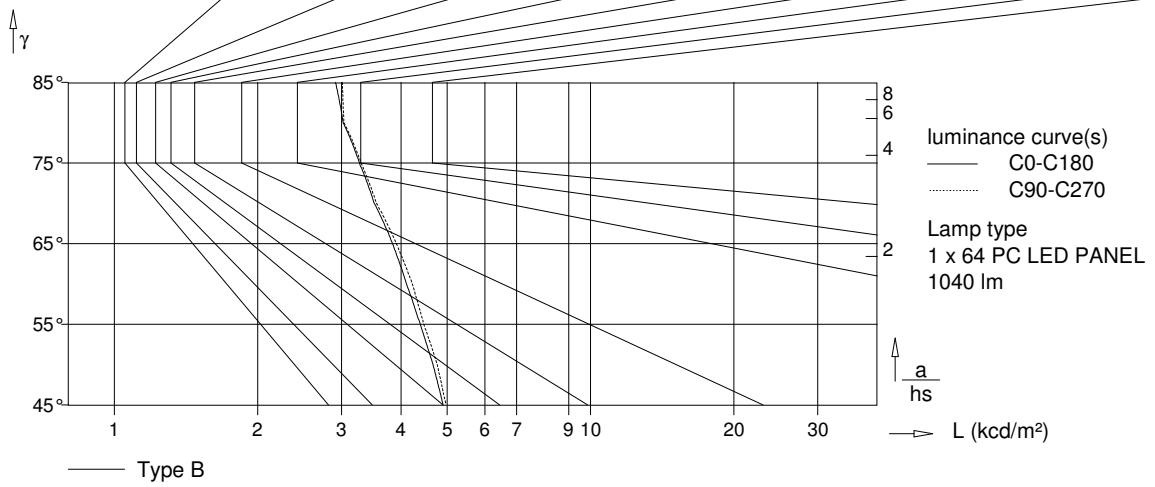


Tabelle der berechneten Leuchtdichten

gamma	C 0	C 90	C 180	C 270
45°	4903.9	4971.1	4903.9	4971.1
50°	4669.5	4765.9	4669.5	4765.9
55°	4387.1	4464.5	4387.1	4464.5
60°	4107.0	4224.0	4107.0	4224.0
65°	3838.4	3910.2	3838.4	3910.2
70°	3514.9	3552.1	3514.9	3552.1
75°	3270.3	3296.6	3270.3	3296.6
80°	3024.6	3035.3	3024.6	3035.3
85°	2914.4	3011.5	2914.4	3011.5

alle Werte in cd/m²

