

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: PORTFOLIO

Report Number: P245648

Luminaire Tested: **LSR8B20D010 EC8B20940 8LBN0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245648
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201794)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B20D010 EC8B20940 8LBN0GPH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 2183 (1 lamp)
Luminaire Lumens: 1608.0 lumens
Efficiency: 73.7%
Efficacy: 75.5 lumens/watt
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.77
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

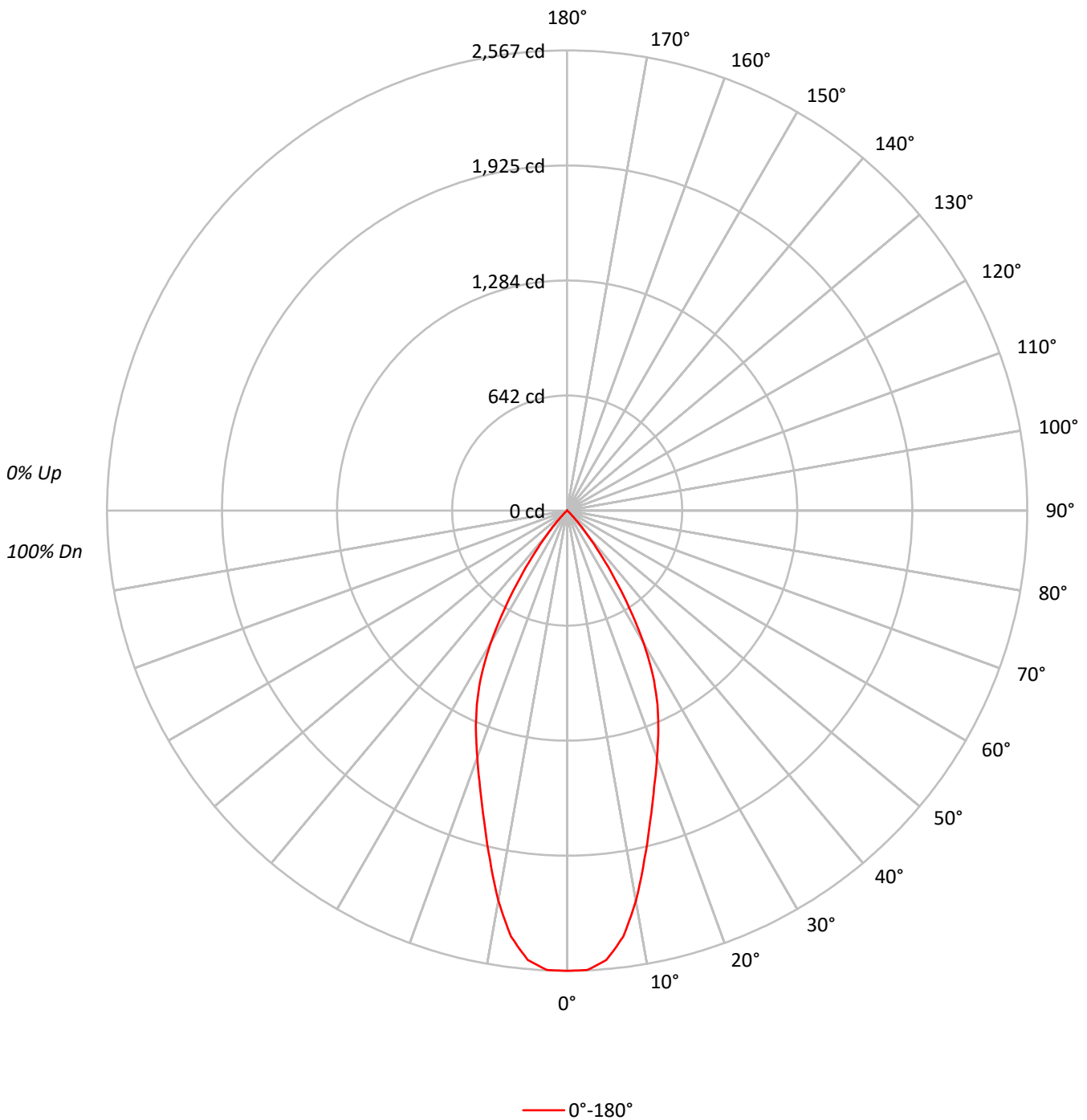
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	88	88	88	88	86	86	86	86	82	82	82	78	78	78	75	75	75	74
1	84	82	80	79	82	80	79	78	77	76	75	75	74	73	72	72	71	70
2	80	77	74	72	79	76	73	71	73	71	69	71	69	68	69	68	67	65
3	77	72	69	66	75	71	68	66	69	67	65	67	65	64	66	64	63	61
4	73	68	64	61	72	67	64	61	66	63	60	64	62	60	63	61	59	58
5	70	64	60	57	69	63	60	57	62	59	56	61	58	56	60	57	55	54
6	67	61	56	54	66	60	56	53	59	55	53	58	55	53	57	54	52	51
7	64	57	53	50	63	57	53	50	56	52	50	55	52	50	54	51	49	48
8	61	54	50	47	60	54	50	47	53	50	47	52	49	47	52	49	47	46
9	58	52	48	45	57	51	47	45	51	47	45	50	47	44	49	46	44	43
10	56	49	45	42	55	49	45	42	48	45	42	48	44	42	47	44	42	41

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	79166
5°	77899
10°	69215
15°	57109
20°	48074
25°	40560
30°	30365
35°	17173
40°	6783
45°	1827
50°	350
55°	0
60°	43
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	230.3	14.3	10.5	0°	2567	
10°-20°	501.9	31.2	23.0	5°	2517	230
20°-30°	537.6	33.4	24.6	15°	1789	502
30°-40°	291.4	18.1	13.3	25°	1192	538
40°-50°	45.4	2.8	2.1	35°	456	291
50°-60°	1.2	0.1	0.1	45°	42	45
60°-70°	0.3	0.0	0.0	55°	0	1
70°-80°	0.0	0.0	0.0	65°	0	0
80°-90°	0.0	0.0	0.0	75°	0	0
90°-100°	0.0	0.0	0.0	85°	0	0
100°-110°	0.0	0.0	0.0	90°	0	0
110°-120°	0.0	0.0	0.0	95°	0	0
120°-130°	0.0	0.0	0.0	105°	0	0
130°-140°	0.0	0.0	0.0	115°	0	0
140°-150°	0.0	0.0	0.0	125°	0	0
150°-160°	0.0	0.0	0.0	135°	0	0
160°-170°	0.0	0.0	0.0	145°	0	0
170°-180°	0.0	0.0	0.0	155°	0	0
0°-30°	1269.8	79.0	58.2	165°	0	0
0°-40°	1561.2	97.1	71.5	175°	0	0
0°-60°	1607.7	100.0	73.6	180°	0	0
0°-90°	1608.0	100.0	73.7			
90°-120°	0.0	0.0	0.0			
90°-150°	0.0	0.0	0.0			
90°-180°	0.0	0.0	0.0			
0°-180°	1608.0	100.0	73.7			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2567.3
2.5°	2565.2
5°	2516.6
7.5°	2396.6
10°	2210.5
12.5°	1992.6
15°	1788.9
17.5°	1615.9
20°	1465.0
22.5°	1329.7
25°	1192.1
27.5°	1036.0
30°	852.8
32.5°	650.5
35°	456.2
37.5°	292.2
40°	168.5
42.5°	89.8
45°	41.9
47.5°	22.9
50°	7.3
52.5°	0.7
55°	0.0
57.5°	0.7
60°	0.7
62.5°	0.0
65°	0.0
67.5°	0.7
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.0
102.5°	0.0
105°	0.0
107.5°	0.0
110°	0.0



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	0.0
115°	0.0
117.5°	0.0
120°	0.0
122.5°	0.0
125°	0.0
127.5°	0.0
130°	0.0
132.5°	0.0
135°	0.0
137.5°	0.0
140°	0.0
142.5°	0.0
145°	0.0
147.5°	0.0
150°	0.0
152.5°	0.0
155°	0.0
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0

(END OF REPORT)