

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: P245624

Luminaire Tested: **LSR8B20D010 EC8B20850 8LBN0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245624
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 EC8B20850 8LBN0GPH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 2183 (1 lamp)
Luminaire Lumens: 1829.0 lumens
Efficiency: 83.8%
Efficacy: 85.9 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

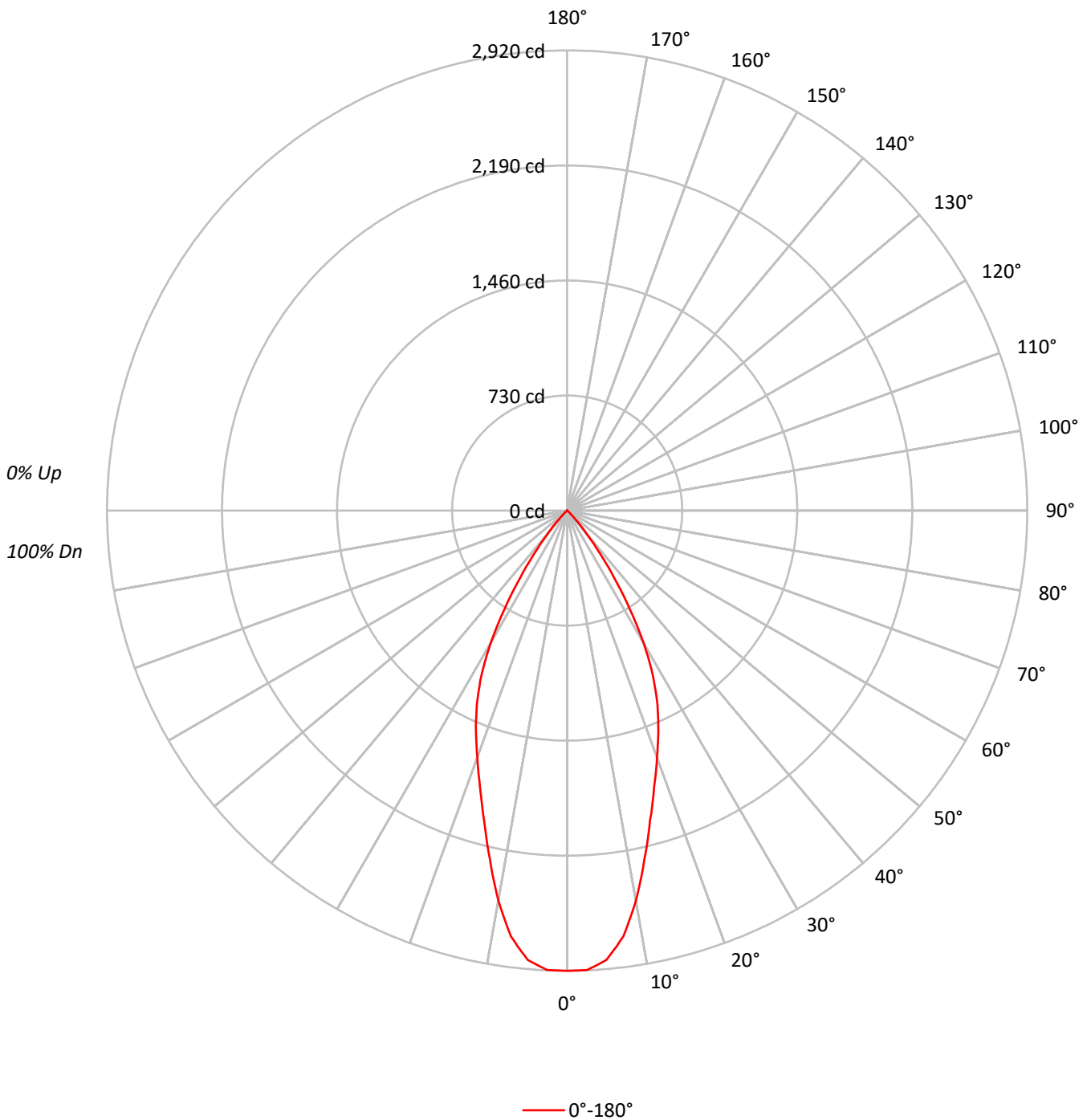
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100	100	100	97	97	97	97	93	93	93	89	89	89	85	85	85	84
1	95	93	91	90	93	91	90	88	88	87	85	85	84	83	82	81	81	79
2	91	87	84	82	89	86	83	81	83	81	79	81	79	77	79	77	76	74
3	87	82	78	75	85	81	77	75	79	76	73	77	74	72	75	73	71	70
4	83	77	73	70	82	76	72	69	75	71	68	73	70	68	71	69	67	66
5	79	73	68	65	78	72	68	65	71	67	64	69	66	64	68	65	63	62
6	76	69	64	61	75	68	64	61	67	63	60	66	62	60	65	62	59	58
7	72	65	60	57	71	65	60	57	64	60	57	63	59	56	62	59	56	55
8	69	62	57	54	68	61	57	54	60	56	54	60	56	53	59	56	53	52
9	66	59	54	51	65	58	54	51	58	54	51	57	53	51	56	53	50	49
10	63	56	51	48	63	55	51	48	55	51	48	54	51	48	54	50	48	47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	90045
5°	88603
10°	78728
15°	64956
20°	54683
25°	46137
30°	34539
35°	19534
40°	7713
45°	2080
50°	398
55°	0
60°	49
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°	261.9	14.3	12.0	0°	2920	
10°-20°	570.9	31.2	26.2	5°	2862	262
20°-30°	611.5	33.4	28.0	15°	2035	571
30°-40°	331.4	18.1	15.2	25°	1356	612
40°-50°	51.6	2.8	2.4	35°	519	331
50°-60°	1.3	0.1	0.1	45°	48	52
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°	1444.4	79.0	66.2	165°	0	0
0°-40°	1775.8	97.1	81.3	175°	0	0
0°-60°	1828.7	100.0	83.8	180°	0	0
0°-90°	1829.0	100.0	83.8			
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°	1829.0	100.0	83.8			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2920.1
2.5°	2917.8
5°	2862.4
7.5°	2726.0
10°	2514.3
12.5°	2266.5
15°	2034.7
17.5°	1838.0
20°	1666.4
22.5°	1512.4
25°	1356.0
27.5°	1178.4
30°	970.0
32.5°	739.9
35°	518.9
37.5°	332.3
40°	191.6
42.5°	102.1
45°	47.7
47.5°	26.0
50°	8.3
52.5°	0.8
55°	0.0
57.5°	0.8
60°	0.8
62.5°	0.0
65°	0.0
67.5°	0.8
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)