

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: P245642

Luminaire Tested: **LSR8B20D010 EC8B20935 8LBN0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245642
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 EC8B20935 8LBN0GPH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 2183 (1 lamp)
Luminaire Lumens: 1540.0 lumens
Efficiency: 70.5%
Efficacy: 72.3 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

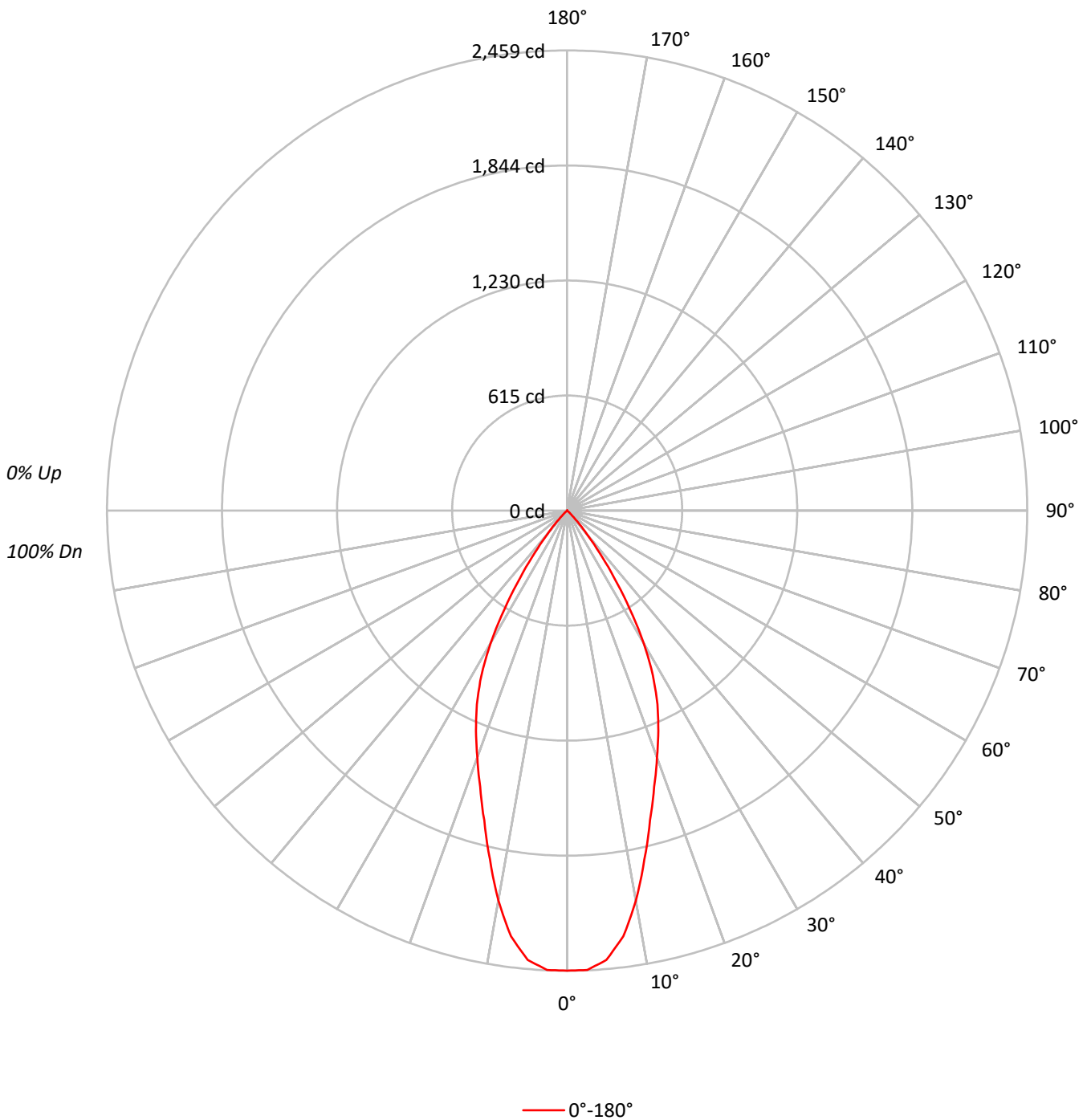
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	84	84	84	84	82	82	82	82	78	78	78	75	75	75	72	72	72	71	71	71	71	
1	80	79	77	75	79	77	76	74	74	73	72	72	71	70	69	68	68	67	67	67	67	
2	77	74	71	69	75	72	70	68	70	68	66	68	66	65	66	65	64	63	63	63	63	
3	73	69	66	63	72	68	65	63	66	64	62	65	63	61	63	61	60	59	59	59	59	
4	70	65	61	59	69	64	61	58	63	60	58	61	59	57	60	58	56	55	55	55	55	
5	67	61	58	55	66	61	57	54	59	56	54	58	56	54	57	55	53	52	52	52	52	
6	64	58	54	51	63	57	54	51	56	53	51	55	53	50	55	52	50	49	49	49	49	
7	61	55	51	48	60	54	51	48	54	50	48	53	50	48	52	49	47	46	46	46	46	
8	58	52	48	45	57	52	48	45	51	48	45	50	47	45	50	47	45	44	44	44	44	
9	56	49	46	43	55	49	45	43	48	45	43	48	45	43	47	44	42	42	42	42	42	
10	53	47	43	41	53	47	43	41	46	43	41	46	43	40	45	42	40	39	39	39	39	

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	75817
5°	74602
10°	66288
15°	54692
20°	46043
25°	38845
30°	29080
35°	16447
40°	6493
45°	1749
50°	336
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°	220.5	14.3	10.1	0°	2459	
10°-20°	480.7	31.2	22.0	5°	2410	221
20°-30°	514.9	33.4	23.6	15°	1713	481
30°-40°	279.0	18.1	12.8	25°	1142	515
40°-50°	43.4	2.8	2.0	35°	437	279
50°-60°	1.1	0.1	0.1	45°	40	43
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°	1216.1	79.0	55.7	165°	0	0
0°-40°	1495.1	97.1	68.5	175°	0	0
0°-60°	1539.7	100.0	70.5	180°	0	0
0°-90°	1540.0	100.0	70.5			
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°	1540.0	100.0	70.5			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2458.7
2.5°	2456.7
5°	2410.1
7.5°	2295.2
10°	2117.0
12.5°	1908.4
15°	1713.2
17.5°	1547.6
20°	1403.1
22.5°	1273.4
25°	1141.7
27.5°	992.2
30°	816.7
32.5°	622.9
35°	436.9
37.5°	279.8
40°	161.3
42.5°	86.0
45°	40.1
47.5°	21.9
50°	7.0
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)