

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: P246374

Luminaire Tested: **LSR8B20D010 EC8B20950 8LBN0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246374
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201749)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B20D010 EC8B20950 8LBN0B
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 1887 (1 lamp)
Luminaire Lumens: 1200.0 lumens
Efficiency: 63.6%
Efficacy: 56.3 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

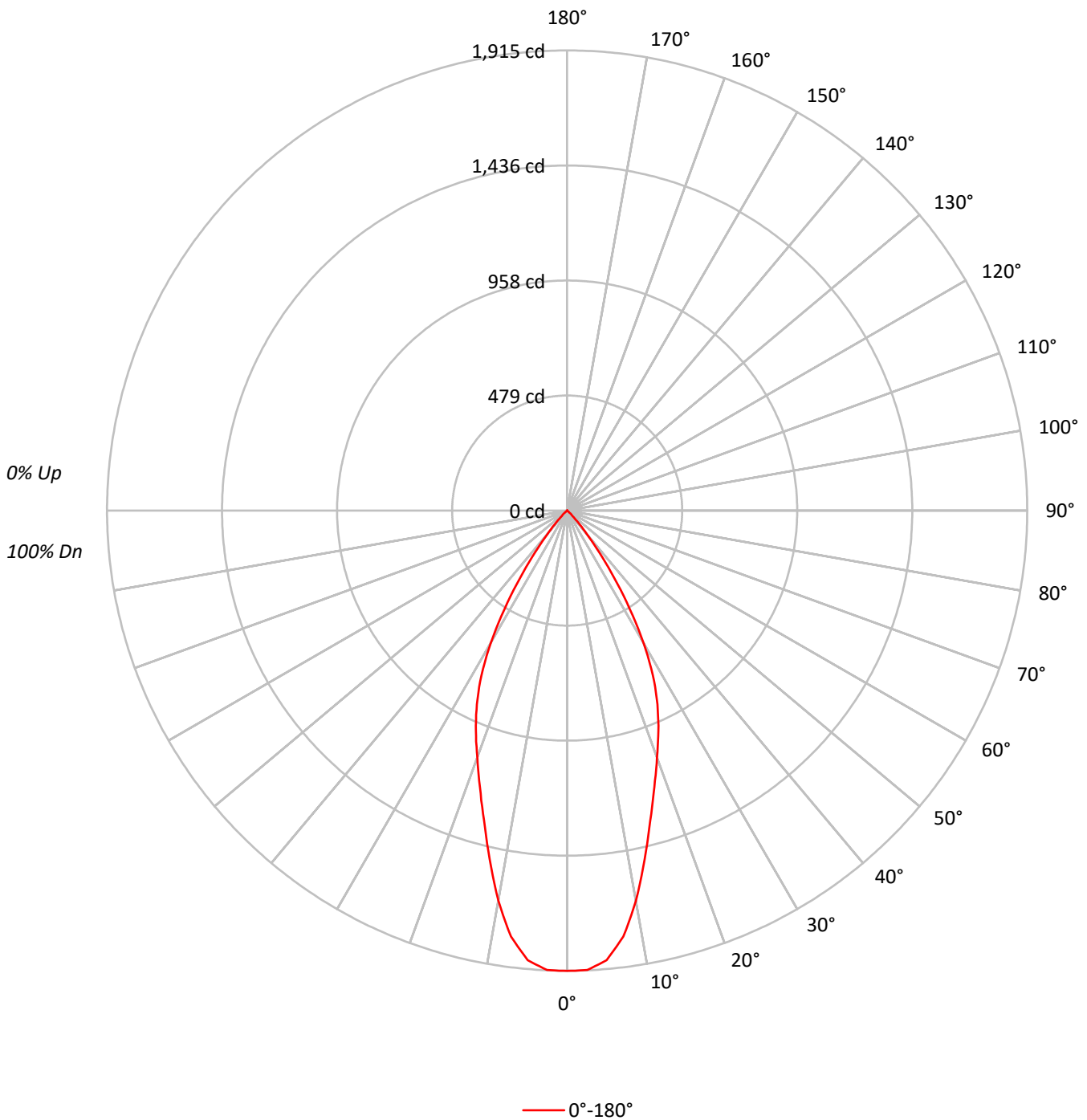
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																				
0	76	76	76	76	74	74	74	74	71	71	71		68	68	68		65	65	65	64
1	72	71	69	68	71	69	68	67	67	66	65		65	64	63		62	62	61	60
2	69	66	64	62	68	65	63	61	63	61	60		61	60	59		60	58	57	56
3	66	62	59	57	65	61	59	57	60	58	56		58	56	55		57	55	54	53
4	63	59	55	53	62	58	55	53	57	54	52		55	53	51		54	52	51	50
5	60	55	52	49	59	55	52	49	54	51	49		53	50	48		52	50	48	47
6	57	52	49	46	57	52	48	46	51	48	46		50	47	45		49	47	45	44
7	55	49	46	43	54	49	46	43	48	45	43		48	45	43		47	44	43	42
8	52	47	43	41	52	47	43	41	46	43	41		45	43	41		45	42	40	40
9	50	45	41	39	50	44	41	39	44	41	39		43	40	38		43	40	38	37
10	48	42	39	37	47	42	39	37	42	39	37		41	38	36		41	38	36	36

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	59064
5°	58129
10°	51640
15°	42609
20°	35877
25°	30261
30°	22667
35°	12822
40°	5064
45°	1356
50°	273
55°	0
60°	37
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°	171.8	14.3	9.1	0°	1915	
10°-20°	374.5	31.2	19.8	5°	1878	172
20°-30°	401.2	33.4	21.3	15°	1335	375
30°-40°	217.5	18.1	11.5	25°	889	401
40°-50°	33.8	2.8	1.8	35°	341	217
50°-60°	0.9	0.1	0.1	45°	31	34
60°-70°	0.2	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°	947.6	79.0	50.2	165°	0	0
0°-40°	1165.0	97.1	61.7	175°	0	0
0°-60°	1199.8	100.0	63.6	180°	0	0
0°-90°	1200.0	100.0	63.6			
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°	1200.0	100.0	63.6			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1915.4
2.5°	1914.1
5°	1877.9
7.5°	1788.4
10°	1649.2
12.5°	1487.2
15°	1334.7
17.5°	1205.8
20°	1093.3
22.5°	992.3
25°	889.4
27.5°	773.2
30°	636.6
32.5°	485.4
35°	340.6
37.5°	218.0
40°	125.8
42.5°	67.3
45°	31.1
47.5°	16.5
50°	5.7
52.5°	0.6
55°	0.0
57.5°	0.6
60°	0.6
62.5°	0.0
65°	0.0
67.5°	0.6
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)