

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: P245654

Luminaire Tested: **LSR8B20D010 EC8B20950 8LBN0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245654
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 EC8B20950 8LBN0GPH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 2183 (1 lamp)
Luminaire Lumens: 1665.0 lumens
Efficiency: 76.3%
Efficacy: 78.2 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

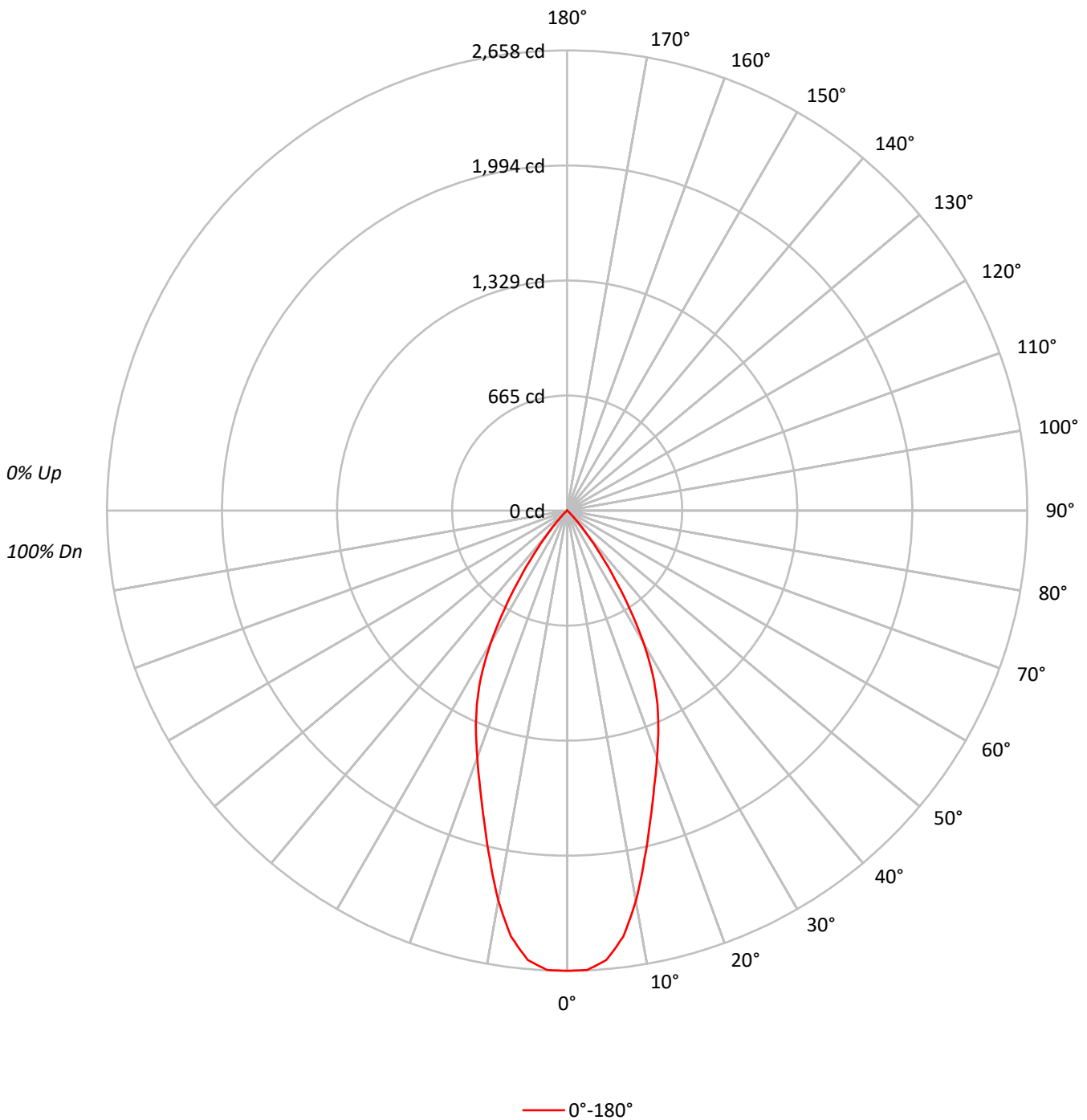
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	50	30	10	0																			
RCR																																														
0	91	91	91	91	89	89	89	89	85	85	85	81	81	81	78	78	78	76	76	76	72	72	72	68	68	68	64	64																		
1	87	85	83	82	85	83	82	80	80	79	78	77	76	75	75	74	73	72	72	71	70	69	68	67	66	65	64	63																		
2	83	80	77	74	81	78	76	73	76	74	72	74	72	70	72	70	69	68	68	67	66	65	64	63	62	61	60	59																		
3	79	75	71	68	78	74	70	68	72	69	67	70	68	66	68	66	65	64	63	62	61	60	59	58	57	56	55	54																		
4	76	70	66	63	74	69	66	63	68	65	62	66	64	62	65	63	61	60	59	58	57	56	55	54	53	52	51	50																		
5	72	66	62	59	71	66	62	59	64	61	58	63	60	58	62	59	57	56	55	54	53	52	51	50	49	48	47	46																		
6	69	63	58	55	68	62	58	55	61	57	55	60	57	54	59	56	54	53	52	51	50	49	48	47	46	45	44	43	42																	
7	66	59	55	52	65	59	55	52	58	54	52	57	54	51	56	53	51	50	49	48	47	46	45	44	43	42	41	40	39																	
8	63	56	52	49	62	56	52	49	55	51	49	54	51	49	54	51	48	47	46	45	44	43	42	41	40	39	38	37	36																	
9	60	53	49	46	59	53	49	46	52	49	46	52	48	46	51	48	46	45	44	43	42	41	40	39	38	37	36	35	34																	
10	58	51	47	44	57	51	47	44	50	46	44	49	46	44	49	46	44	43	42	41	40	39	38	37	36	35	34	33	32																	

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	81972
5°	80660
10°	71667
15°	59133
20°	49781
25°	41999
30°	31441
35°	17783
40°	7020
45°	1893
50°	365
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°	238.4	14.3	10.9	0°	2658	
10°-20°	519.7	31.2	23.8	5°	2606	238
20°-30°	556.7	33.4	25.5	15°	1852	520
30°-40°	301.7	18.1	13.8	25°	1234	557
40°-50°	47.0	2.8	2.2	35°	472	302
50°-60°	1.2	0.1	0.1	45°	43	47
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°	1314.9	79.0	60.2	165°	0	0
0°-40°	1616.5	97.1	74.1	175°	0	0
0°-60°	1664.7	100.0	76.3	180°	0	0
0°-90°	1665.0	100.0	76.3			
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°	1665.0	100.0	76.3			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2658.3
2.5°	2656.1
5°	2605.8
7.5°	2481.6
10°	2288.8
12.5°	2063.3
15°	1852.3
17.5°	1673.2
20°	1517.0
22.5°	1376.8
25°	1234.4
27.5°	1072.8
30°	883.0
32.5°	673.5
35°	472.4
37.5°	302.5
40°	174.4
42.5°	93.0
45°	43.4
47.5°	23.7
50°	7.6
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)