

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: P245612

Luminaire Tested: **LSR8B20D010 EC8B20835 8LBN0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245612
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 EC8B20835 8LBN0GPH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 2183 (1 lamp)
Luminaire Lumens: 1805.0 lumens
Efficiency: 82.7%
Efficacy: 84.7 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

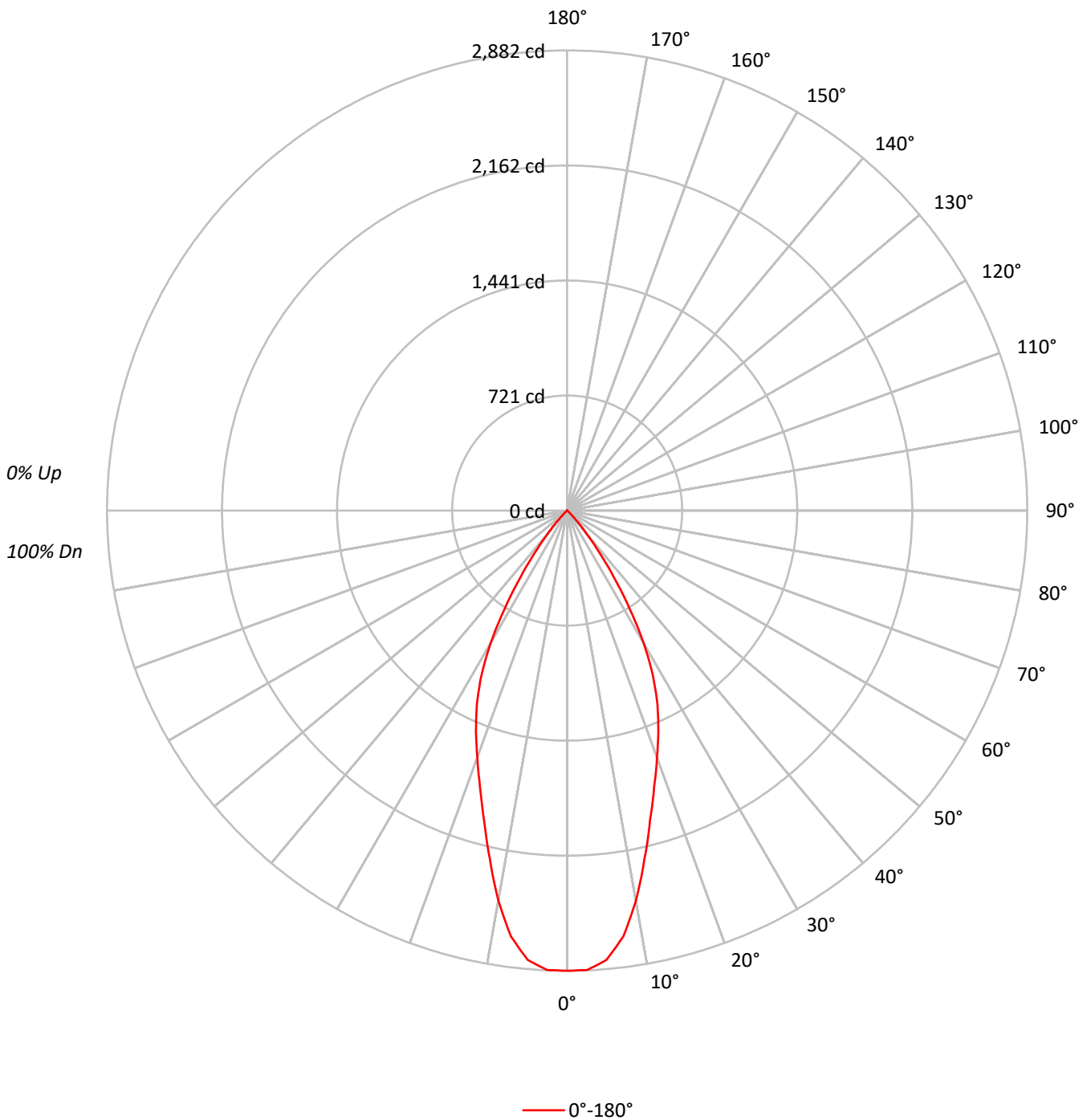
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	98	98	98	96	96	96	96	92	92	92	88	88	88	84	84	84	83				83
1	94	92	90	88	92	90	89	87	87	86	84	84	83	82	81	80	79				78	
2	90	86	83	81	88	85	82	80	82	80	78	80	78	76	78	76	75				73	
3	86	81	77	74	84	80	76	74	78	75	72	76	73	71	74	72	70				69	
4	82	76	72	69	81	75	71	68	74	70	68	72	69	67	70	68	66				65	
5	78	72	67	64	77	71	67	64	70	66	63	68	65	63	67	64	62				61	
6	75	68	63	60	74	67	63	60	66	62	59	65	62	59	64	61	59				58	
7	71	64	60	56	70	64	59	56	63	59	56	62	58	56	61	58	55				54	
8	68	61	56	53	67	61	56	53	60	56	53	59	55	53	58	55	52				51	
9	65	58	53	50	64	58	53	50	57	53	50	56	52	50	55	52	50				49	
10	63	55	51	48	62	55	50	48	54	50	47	53	50	47	53	50	47				46	

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	88864
5°	87442
10°	77695
15°	64104
20°	53965
25°	45531
30°	34086
35°	19278
40°	7612
45°	2050
50°	393
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°	258.5	14.3	11.8	0°	2882	
10°-20°	563.4	31.2	25.8	5°	2825	258
20°-30°	603.5	33.4	27.6	15°	2008	563
30°-40°	327.0	18.1	15.0	25°	1338	604
40°-50°	50.9	2.8	2.3	35°	512	327
50°-60°	1.3	0.1	0.1	45°	47	51
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°	1425.4	79.0	65.3	165°	0	0
0°-40°	1752.5	97.1	80.3	175°	0	0
0°-60°	1804.7	100.0	82.7	180°	0	0
0°-90°	1805.0	100.0	82.7			
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°	1805.0	100.0	82.7			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2881.8
2.5°	2879.5
5°	2824.9
7.5°	2690.2
10°	2481.3
12.5°	2236.8
15°	2008.0
17.5°	1813.9
20°	1644.5
22.5°	1492.6
25°	1338.2
27.5°	1163.0
30°	957.3
32.5°	730.1
35°	512.1
37.5°	328.0
40°	189.1
42.5°	100.8
45°	47.0
47.5°	25.7
50°	8.2
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)