

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: P243814

Luminaire Tested: **LSR8B40D010 EC8B40835 8LBW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P243814
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27941)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B40D010 EC8B40835 8LBW0LI
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4643.0 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.17
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

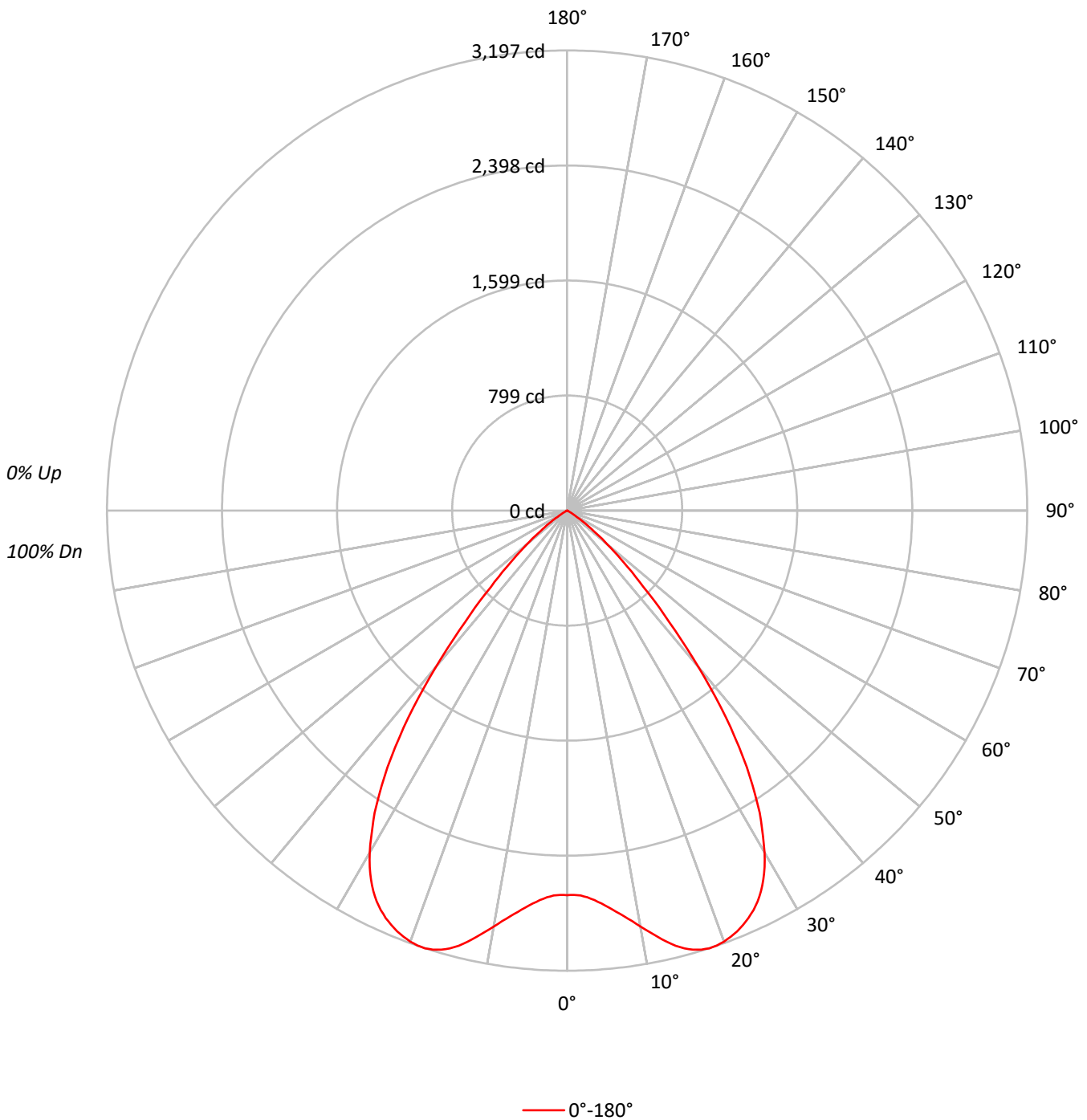
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92
2	106	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84
3	100	93	87	83	98	92	86	82	89	85	81	86	83	80	84	81	78	77
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	75	72	70
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64
6	83	73	66	62	82	72	66	61	71	65	61	69	64	60	68	63	60	58
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54
8	74	63	56	52	72	62	56	52	61	55	51	60	55	51	59	54	51	49
9	70	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	82376
5°	84814
10°	91882
15°	100532
20°	104589
25°	104206
30°	97744
35°	81963
40°	57068
45°	32685
50°	17548
55°	7242
60°	1801
65°	467
70°	225
75°	155
80°	231
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.9	5.8
10°-20°	887.5	19.1
20°-30°	1396.5	30.1
30°-40°	1328.4	28.6
40°-50°	612.4	13.2
50°-60°	139.1	3.0
60°-70°	9.2	0.2
70°-80°	1.8	0.0
80°-90°	0.2	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2551.9	55.0
0°-40°	3880.3	83.6
0°-60°	4631.8	99.8
0°-90°	4643.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4643.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2671	
5°	2740	268
15°	3149	888
25°	3063	1396
35°	2177	1328
45°	750	612
55°	135	139
65°	6	9
75°	1	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2671.4
1°	2670.2
2°	2675.2
3°	2690.5
4°	2713.4
5°	2740.0
6°	2773.1
7°	2808.6
8°	2845.5
9°	2888.7
10°	2934.4
11°	2980.1
12°	3028.4
13°	3074.1
14°	3116.0
15°	3149.1
16°	3173.2
17°	3189.7
18°	3197.3
19°	3196.1
20°	3187.2
21°	3171.9
22°	3152.9
23°	3127.5
24°	3098.3
25°	3062.7
26°	3020.8
27°	2967.4
28°	2903.9
29°	2830.2
30°	2745.1
32.5°	2489.8
35°	2177.3
37.5°	1814.0
40°	1417.7
42.5°	1048.0
45°	749.5
47.5°	531.0
50°	365.8
52.5°	233.7
55°	134.7
57.5°	67.3
60°	29.2
62.5°	11.4
65°	6.4



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	3.8
70°	2.5
72.5°	2.5
75°	1.3
77.5°	1.3
80°	1.3
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)