

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: P244750

Luminaire Tested: **LSR8B40D010 EC8B40835 8LBN0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244750
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201884)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B40D010 EC8B40835 8LBN0WMH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3867.0 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Spacing Criteria (0/90/45): 0.74 / 0.74 / 0.79
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

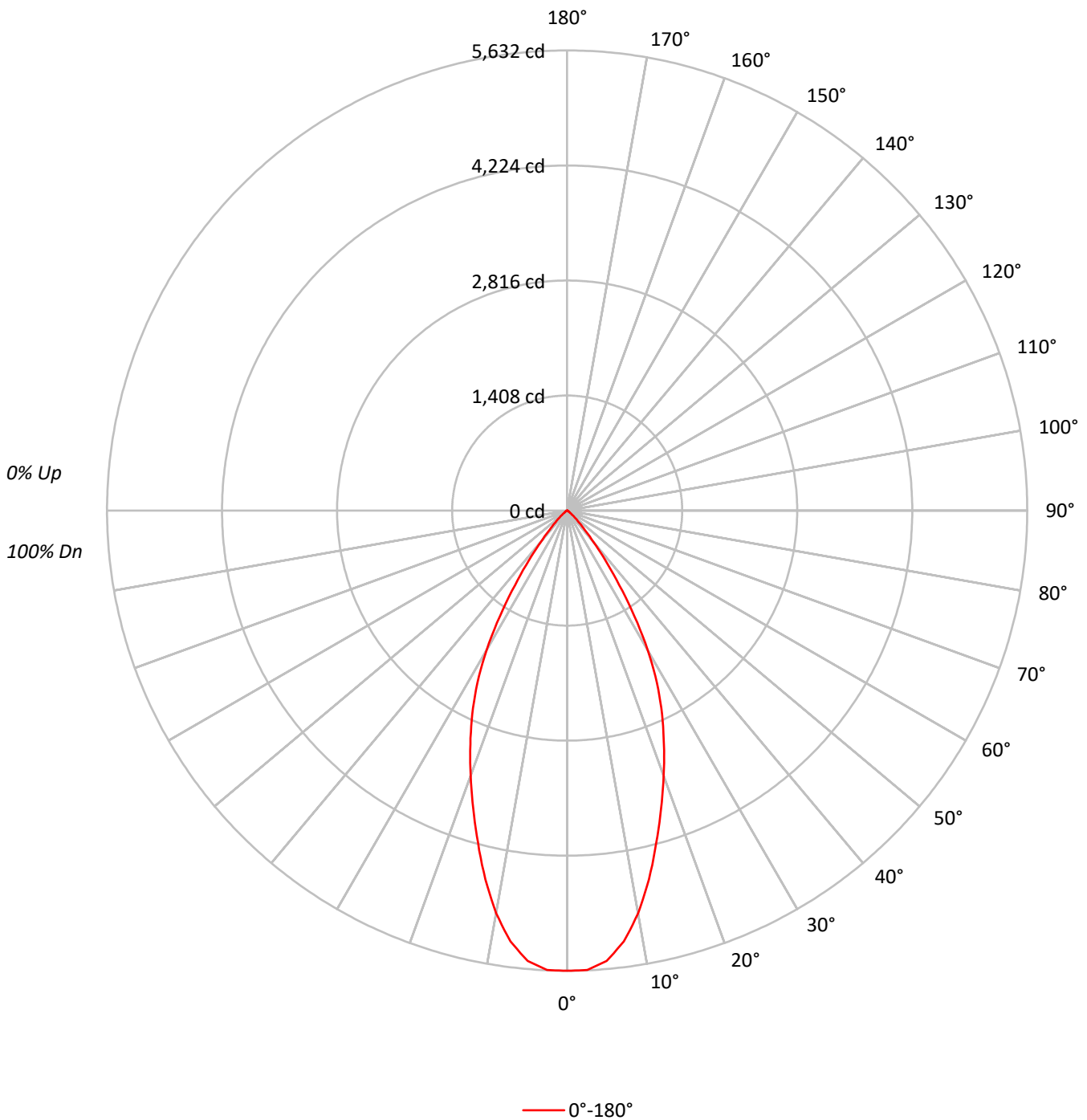
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	108	104	100	97	106	102	99	96	99	96	93	96	94	91	93	91	90	88
3	103	97	92	89	101	96	91	88	93	89	86	91	88	85	89	86	84	82
4	98	91	86	82	97	90	85	81	88	84	80	86	82	79	84	81	79	77
5	94	86	80	76	92	85	80	76	83	78	75	81	77	74	80	76	74	72
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	69	68
7	85	76	71	67	84	76	70	66	74	70	66	73	69	66	72	68	65	64
8	81	72	66	63	80	72	66	62	71	66	62	70	65	62	69	65	62	60
9	78	68	63	59	77	68	63	59	67	62	59	66	62	58	65	61	58	57
10	74	65	59	56	73	65	59	56	64	59	56	63	59	55	62	58	55	54

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	173658
5°	171238
10°	156679
15°	134519
20°	113275
25°	93570
30°	70202
35°	41842
40°	19930
45°	8683
50°	3919
55°	1720
60°	1024
65°	562
70°	577
75°	0
80°	231
85°	920



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	510.9	13.2
10°-20°	1174.1	30.4
20°-30°	1245.8	32.2
30°-40°	710.8	18.4
40°-50°	176.2	4.6
50°-60°	34.6	0.9
60°-70°	10.4	0.3
70°-80°	2.3	0.1
80°-90°	1.9	0.1
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°	2930.8	75.8
0°-40°	3641.6	94.2
0°-60°	3852.4	99.6
0°-90°	3867.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3867.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5632	
5°	5532	511
15°	4214	1174
25°	2750	1246
35°	1112	711
45°	199	176
55°	32	35
65°	8	10
75°	0	2
85°	3	2
90°	0	0
95°	0	0
105°	0	0
115°	0	0
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	0



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5631.6
2.5°	5629.0
5°	5532.0
7.5°	5318.8
10°	5003.8
12.5°	4623.4
15°	4213.7
17.5°	3823.3
20°	3451.9
22.5°	3094.7
25°	2750.1
27.5°	2379.9
30°	1971.6
32.5°	1532.5
35°	1111.5
37.5°	765.7
40°	495.1
42.5°	313.9
45°	199.1
47.5°	130.2
50°	81.7
52.5°	49.7
55°	32.0
57.5°	25.6
60°	16.6
62.5°	15.3
65°	7.7
67.5°	7.7
70°	6.4
72.5°	3.8
75°	0.0
77.5°	1.3
80°	1.3
82.5°	2.6
85°	2.6
87.5°	1.3
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)