

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: P243826

Luminaire Tested: **LD8B40D010 ER8B40850 8LBW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P243826
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: LD8B40D010 ER8B40850 8LBW0LI
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 5000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4703.0 lumens
Efficiency: N/A
Efficacy: 115.0 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

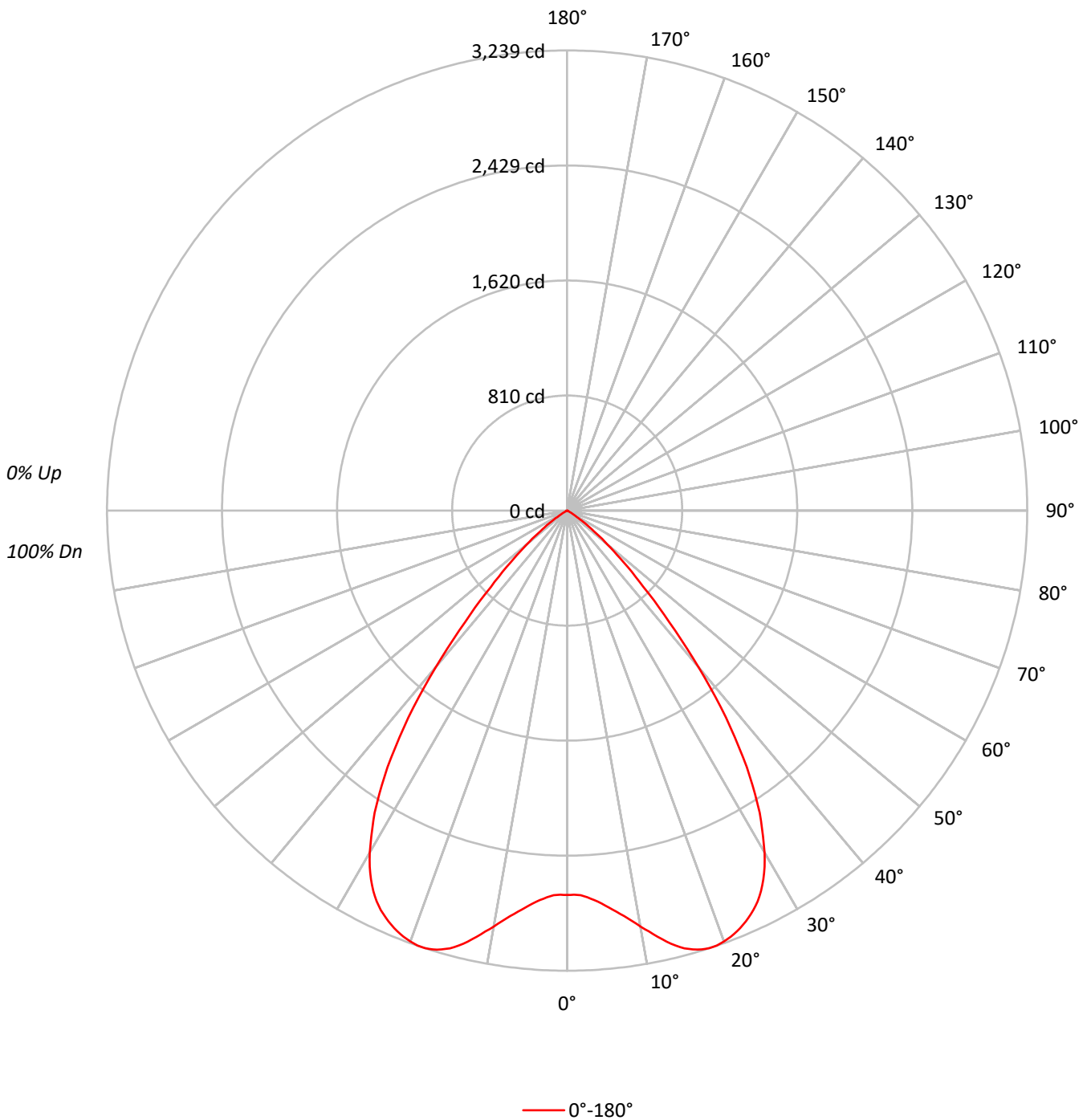
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	83443
5°	85910
10°	93069
15°	101831
20°	105941
25°	105553
30°	99008
35°	83020
40°	57805
45°	33108
50°	17779
55°	7333
60°	1826
65°	467
70°	234
75°	155
80°	231
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.3	5.8
10°-20°	899.0	19.1
20°-30°	1414.5	30.1
30°-40°	1345.5	28.6
40°-50°	620.3	13.2
50°-60°	141.0	3.0
60°-70°	9.3	0.2
70°-80°	1.9	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°	2584.9	55.0
0°-40°	3930.4	83.6
0°-60°	4691.7	99.8
0°-90°	4703.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4703.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2706	
5°	2775	271
15°	3190	899
25°	3102	1415
35°	2205	1346
45°	759	620
55°	136	141
65°	6	9
75°	1	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2706.0
1°	2704.7
2°	2709.8
3°	2725.3
4°	2748.4
5°	2775.4
6°	2808.9
7°	2844.9
8°	2882.2
9°	2926.0
10°	2972.3
11°	3018.6
12°	3067.5
13°	3113.8
14°	3156.3
15°	3189.8
16°	3214.2
17°	3230.9
18°	3238.7
19°	3237.4
20°	3228.4
21°	3212.9
22°	3193.6
23°	3167.9
24°	3138.3
25°	3102.3
26°	3059.8
27°	3005.8
28°	2941.4
29°	2866.8
30°	2780.6
32.5°	2522.0
35°	2205.4
37.5°	1837.4
40°	1436.0
42.5°	1061.5
45°	759.2
47.5°	537.8
50°	370.6
52.5°	236.8
55°	136.4
57.5°	68.2
60°	29.6
62.5°	11.6
65°	6.4



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	3.9
70°	2.6
72.5°	2.6
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)