

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: P249875

Luminaire Tested: **LSR8B80D010 EC8B80830 8LBM0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249875
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13954)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B80D010 EC8B80830 8LBM0H
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7826.0 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.93
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

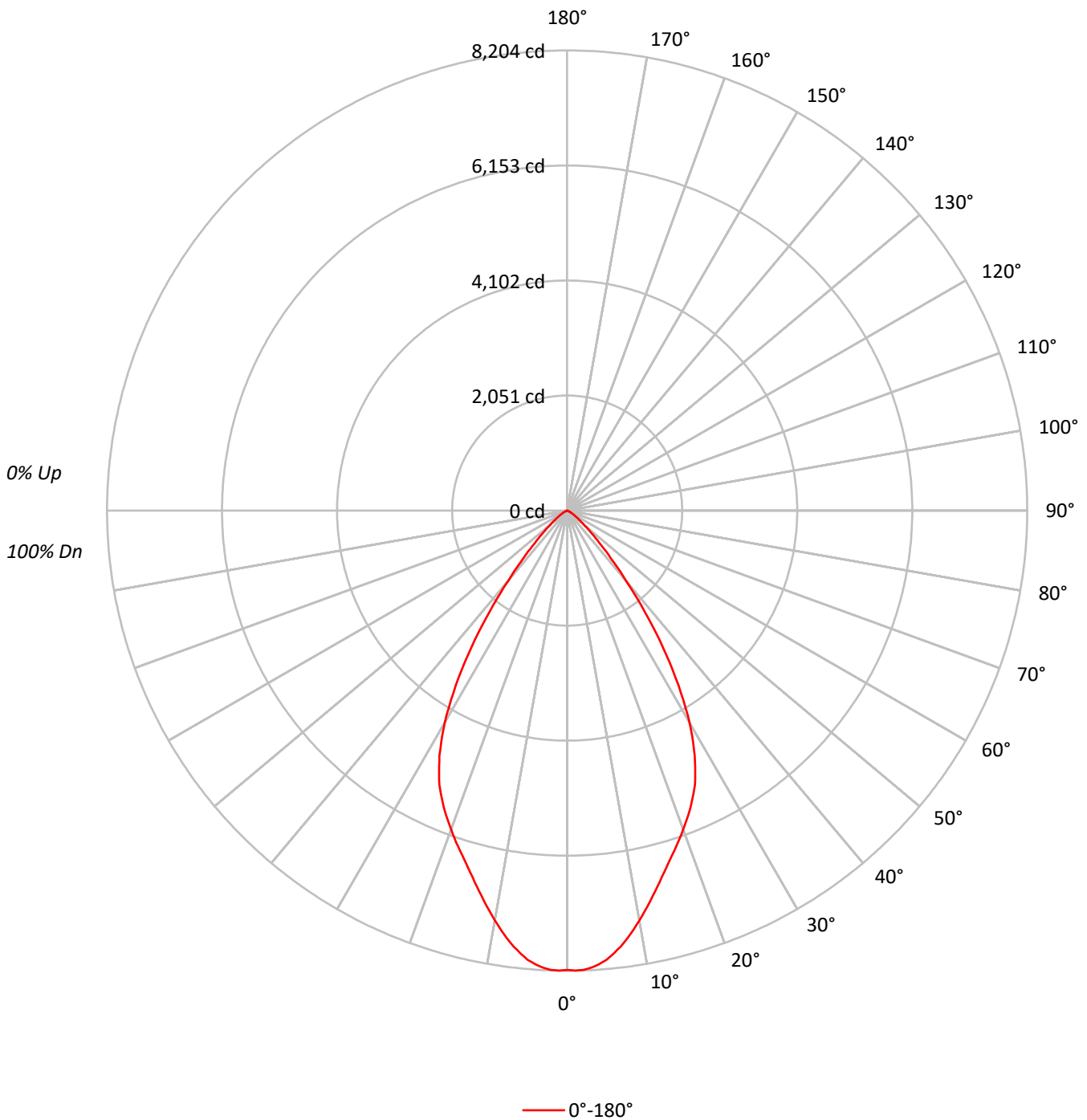
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	111	108	106	104	104	102	101		100	99	98		97	96	95	93
2	107	102	98	94	105	100	97	93	97	94	91		94	92	89		91	89	87	86
3	101	95	90	85	99	93	89	85	91	87	83		88	85	82		86	83	81	79
4	96	88	82	78	94	87	82	77	85	80	76		83	79	76		81	77	75	73
5	91	82	76	71	89	81	75	71	79	74	70		78	73	70		76	72	69	68
6	86	77	70	66	84	76	70	66	74	69	65		73	68	65		71	67	64	63
7	81	72	65	61	80	71	65	61	70	64	60		68	64	60		67	63	60	58
8	77	67	61	57	76	67	61	56	65	60	56		64	60	56		63	59	56	54
9	73	63	57	53	72	63	57	53	62	56	53		61	56	52		60	55	52	51
10	70	60	53	49	69	59	53	49	58	53	49		57	53	49		57	52	49	48

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	252590
5°	248871
10°	232260
15°	213189
20°	198556
25°	183448
30°	155566
35°	111912
40°	65928
45°	35232
50°	18383
55°	10365
60°	5723
65°	3386
70°	1542
75°	870
80°	426
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	746.8	9.5
10°-20°	1878.9	24.0
20°-30°	2439.2	31.2
30°-40°	1841.0	23.5
40°-50°	673.7	8.6
50°-60°	188.3	2.4
60°-70°	49.5	0.6
70°-80°	8.3	0.1
80°-90°	0.3	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°	5064.8	64.7
0°-40°	6905.9	88.2
0°-60°	7767.8	99.3
0°-90°	7826.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7826.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8191	
5°	8040	747
15°	6678	1879
25°	5392	2439
35°	2973	1841
45°	808	674
55°	193	188
65°	46	49
75°	7	8
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	8191.3
1°	8203.5
2°	8193.8
3°	8162.0
4°	8108.3
5°	8040.0
6°	7939.9
7°	7830.1
8°	7703.2
9°	7564.0
10°	7417.6
11°	7271.1
12°	7119.8
13°	6966.0
14°	6819.6
15°	6678.0
16°	6543.8
17°	6414.4
18°	6297.3
19°	6175.2
20°	6050.7
22.5°	5740.8
25°	5391.7
27.5°	4930.4
30°	4369.0
32.5°	3692.9
35°	2972.9
37.5°	2269.9
40°	1637.8
42.5°	1159.4
45°	807.9
47.5°	568.7
50°	383.2
52.5°	280.7
55°	192.8
57.5°	139.1
60°	92.8
62.5°	68.3
65°	46.4
67.5°	31.7
70°	17.1
72.5°	12.2
75°	7.3
77.5°	2.4
80°	2.4



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CANDELA DISTRIBUTION (continued):

	0°
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)