

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: P250421

Luminaire Tested: **LSR8B80D010 EC8B80935 8LBN0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250421
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13948)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B80D010 EC8B80935 8LBN0B
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4214.9 lumens
Efficiency: N/A
Efficacy: 56.7 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

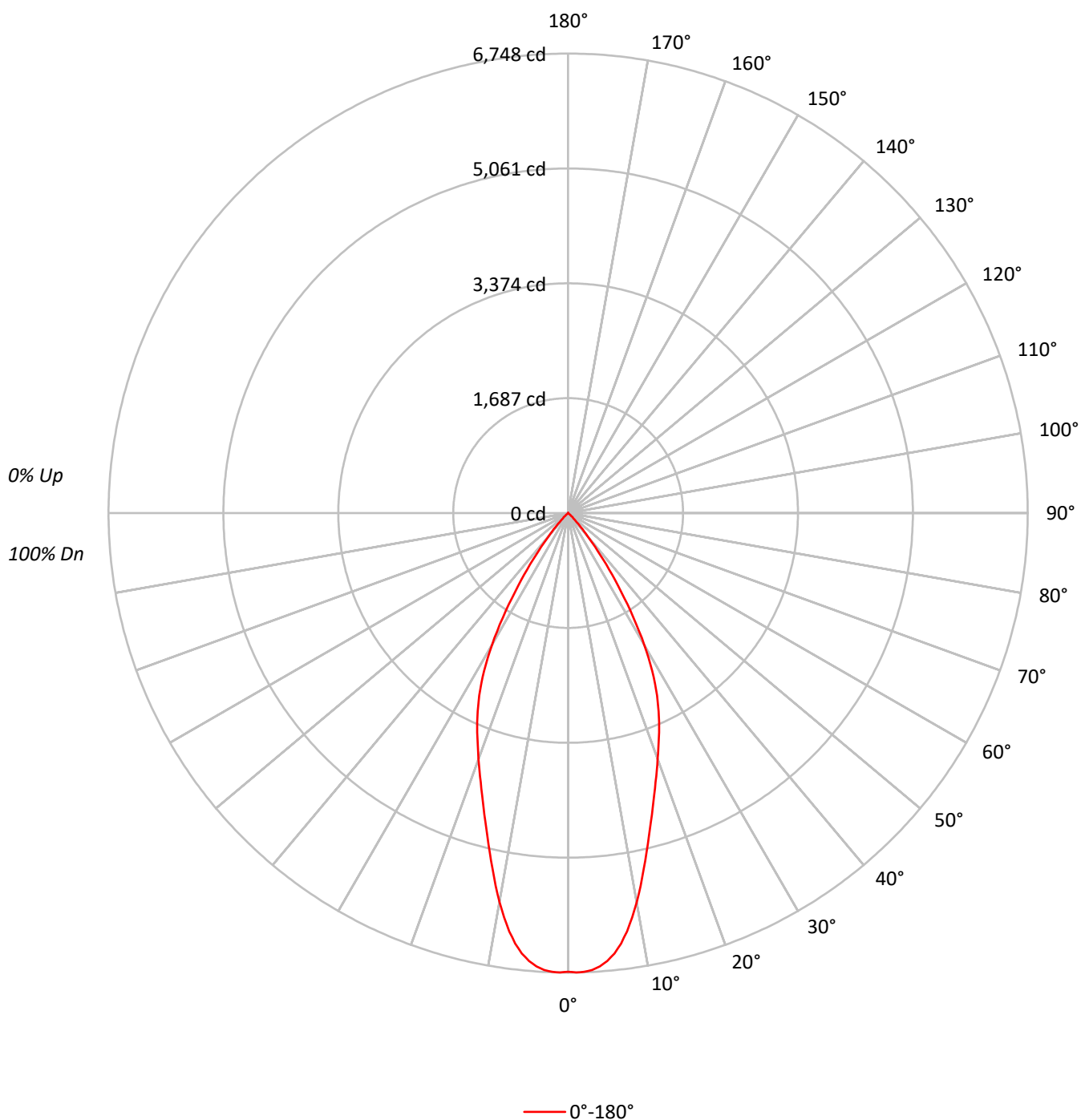
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			50
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	114	111	109	107	112	109	107	105		105	104	102			101	100	99			98
2	109	104	101	97	107	103	99	96		99	97	94			96	94	92			94
3	104	98	93	90	102	97	92	89		94	90	88			92	89	86			89
4	99	92	87	83	97	91	86	83		89	85	82			87	84	81			85
5	95	87	82	78	93	86	81	77		84	80	77			83	79	76			81
6	90	82	77	73	89	81	76	72		80	75	72			79	75	71			77
7	86	78	72	68	85	77	72	68		76	71	68			75	71	67			74
8	83	74	68	64	81	73	68	64		72	67	64			71	67	64			70
9	79	70	65	61	78	70	64	61		69	64	61			68	63	60			67
10	76	67	61	58	75	66	61	58		65	61	57			65	60	57			64

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	207689
5°	204368
10°	181578
15°	149785
20°	126149
25°	106400
30°	79666
35°	45086
40°	17828
45°	4784
50°	916
55°	0
60°	130
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	604.6	14.3
10°-20°	1314.1	31.2
20°-30°	1410.8	33.5
30°-40°	762.5	18.1
40°-50°	119.0	2.8
50°-60°	3.2	0.1
60°-70°	0.8	0.0
70°-80°	0.0	0.0
80°-90°	0.0	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°	3329.5	79.0
0°-40°	4092.0	97.1
0°-60°	4214.2	100.0
0°-90°	4214.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4214.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6735	
5°	6602	605
15°	4692	1314
25°	3127	1411
35°	1198	762
45°	110	119
55°	0	3
65°	0	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	6735.2
1°	6747.9
2°	6741.6
3°	6718.5
4°	6674.2
5°	6602.3
6°	6503.4
7°	6370.4
8°	6203.8
9°	6012.1
10°	5799.0
11°	5575.4
12°	5343.4
13°	5111.7
14°	4896.4
15°	4691.9
16°	4504.2
17°	4322.8
18°	4154.1
19°	3996.2
20°	3844.2
21°	3696.6
22°	3557.3
23°	3418.3
24°	3272.8
25°	3127.2
26°	2979.5
27°	2810.9
28°	2625.3
29°	2435.7
30°	2237.4
31°	2024.4
32°	1811.3
33°	1600.5
34°	1387.5
35°	1197.7
37.5°	765.4
40°	442.9
42.5°	236.2
45°	109.7
47.5°	59.2
50°	19.1
52.5°	2.1
55°	0.0
57.5°	2.1



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CANDELA DISTRIBUTION (continued):

	0°
60°	2.1
62.5°	0.0
65°	0.0
67.5°	2.1
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

(END OF REPORT)