

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: P247622

Luminaire Tested: **LD8B80D010 ER8B80827 8LBS0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247622
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-87)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B80D010 ER8B80827 8LBS0B
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 2700 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7295.0 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.23
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

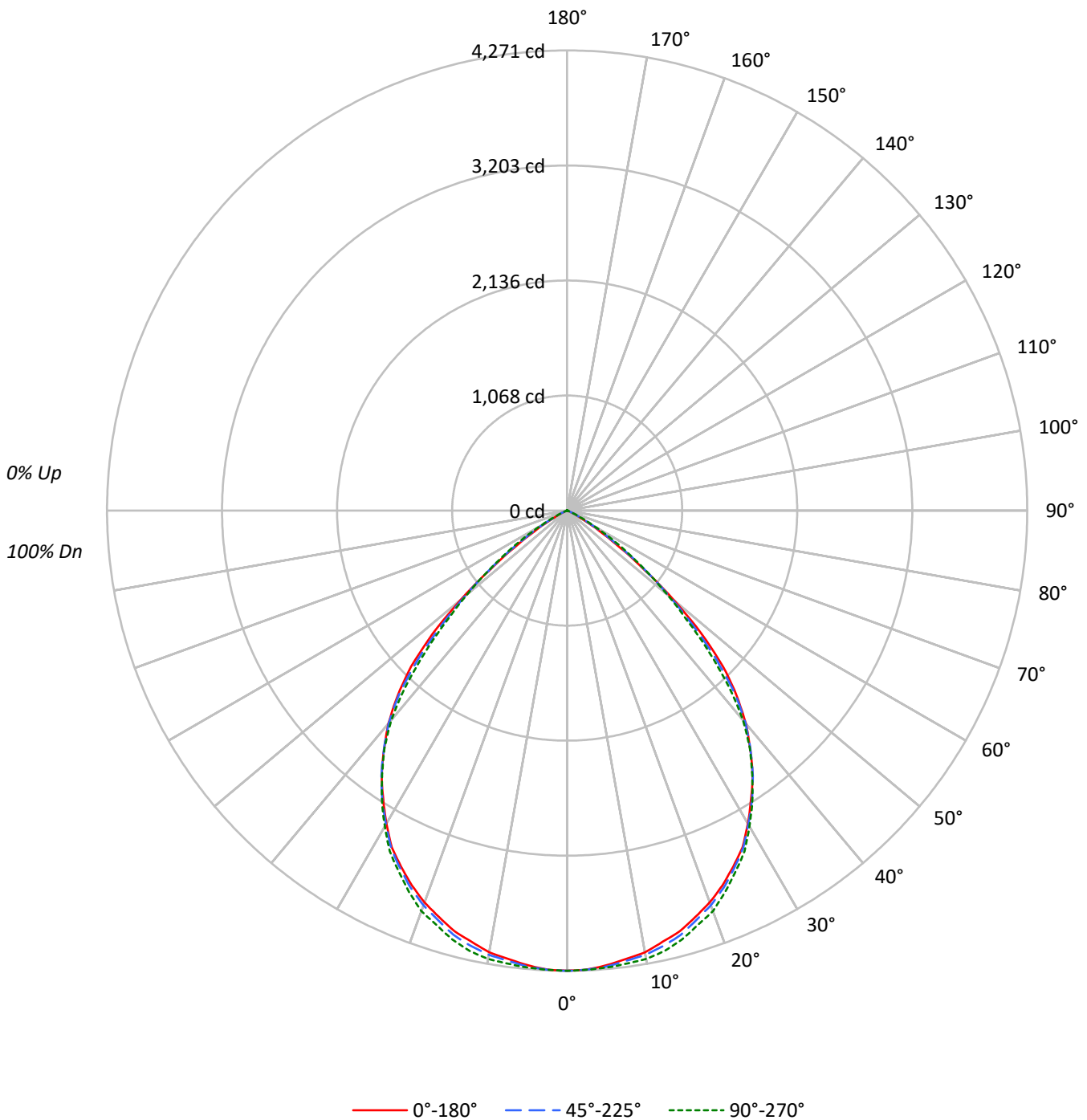
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91				91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82				82
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73				73
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	65				65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59				59
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53				53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48				48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44				44
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	40				40
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37				37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	131714	131714	131714
5°	131112	131462	131781
10°	130368	131072	132306
15°	129050	130161	131569
20°	126989	127914	129791
25°	124038	124709	125828
30°	119453	119752	120522
35°	112974	113151	112692
40°	103811	103698	102265
45°	89268	85627	81702
50°	62062	59856	58191
55°	32381	35203	37273
60°	13136	15504	17996
65°	4174	5137	5480
70°	595	343	171
75°	0	0	0
80°	1492	337	497
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	403.4	5.5
10°-20°	1147.9	15.7
20°-30°	1686.3	23.1
30°-40°	1867.0	25.6
40°-50°	1487.9	20.4
50°-60°	609.7	8.4
60°-70°	89.8	1.2
70°-80°	1.3	0.0
80°-90°	1.8	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°	3237.6	44.4
0°-40°	5104.6	70.0
0°-60°	7202.1	98.7
0°-90°	7295.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7295.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4271	4271	4271	4271	4271	
5°	4236	4243	4247	4254	4257	402
15°	4042	4045	4077	4116	4121	1138
25°	3646	3642	3665	3687	3698	1677
35°	3001	2997	3006	3002	2994	1865
45°	2047	2028	1964	1890	1874	1536
55°	602	623	655	692	693	579
65°	57	60	70	77	75	76
75°	0	0	0	0	0	2
85°	0	0	0	4	0	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4271.4	4271.4	4271.4	4271.4	4271.4
2.5°	4263.8	4264.8	4264.8	4260.1	4265.7
5°	4235.7	4243.2	4247.0	4253.5	4257.3
7.5°	4196.3	4194.4	4214.1	4237.6	4240.4
10°	4163.5	4159.7	4186.0	4216.9	4225.4
12.5°	4098.7	4103.4	4137.2	4169.1	4186.0
15°	4042.4	4045.3	4077.2	4115.6	4121.3
17.5°	3955.2	3963.6	3985.2	4025.6	4033.1
20°	3869.8	3873.6	3898.0	3930.8	3955.2
22.5°	3765.7	3772.3	3791.0	3820.1	3832.3
25°	3645.6	3641.9	3665.3	3686.9	3698.2
27.5°	3523.7	3517.1	3534.9	3555.6	3565.9
30°	3354.8	3352.9	3363.2	3376.4	3384.8
32.5°	3177.5	3182.2	3192.5	3196.2	3199.1
35°	3001.1	2997.4	3005.8	3002.0	2993.6
37.5°	2791.9	2794.7	2794.7	2791.0	2787.2
40°	2578.9	2581.8	2576.1	2555.5	2540.5
42.5°	2329.4	2331.3	2302.2	2256.2	2225.3
45°	2047.0	2028.3	1963.5	1890.4	1873.5
47.5°	1691.5	1659.6	1592.0	1536.7	1517.0
50°	1293.7	1270.2	1247.7	1218.6	1213.0
52.5°	907.2	919.4	927.8	937.2	934.4
55°	602.3	622.9	654.8	692.3	693.3
57.5°	362.1	385.6	425.9	467.2	486.9
60°	213.0	222.3	251.4	282.4	291.8
62.5°	115.4	118.2	131.3	162.3	157.6
65°	57.2	60.0	70.4	76.9	75.1
67.5°	28.1	31.0	32.8	42.2	34.7
70°	6.6	1.9	3.8	4.7	1.9
72.5°	0.0	0.0	1.9	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	1.9	0.0	0.0	0.0	3.8
80°	8.4	5.6	1.9	1.9	2.8
82.5°	2.8	0.9	2.8	0.9	0.0
85°	0.0	0.0	0.0	3.8	0.0
87.5°	4.7	0.9	0.9	2.8	4.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)