

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: P247283

Luminaire Tested: **LD8B90D010 ER8B909730 8LBW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247283
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-59)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B90D010 ER8B909730 8LBW0WMH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
97 CRI 3000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6845.0 lumens
Efficiency: N/A
Efficacy: 79.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.14 / 1.06
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

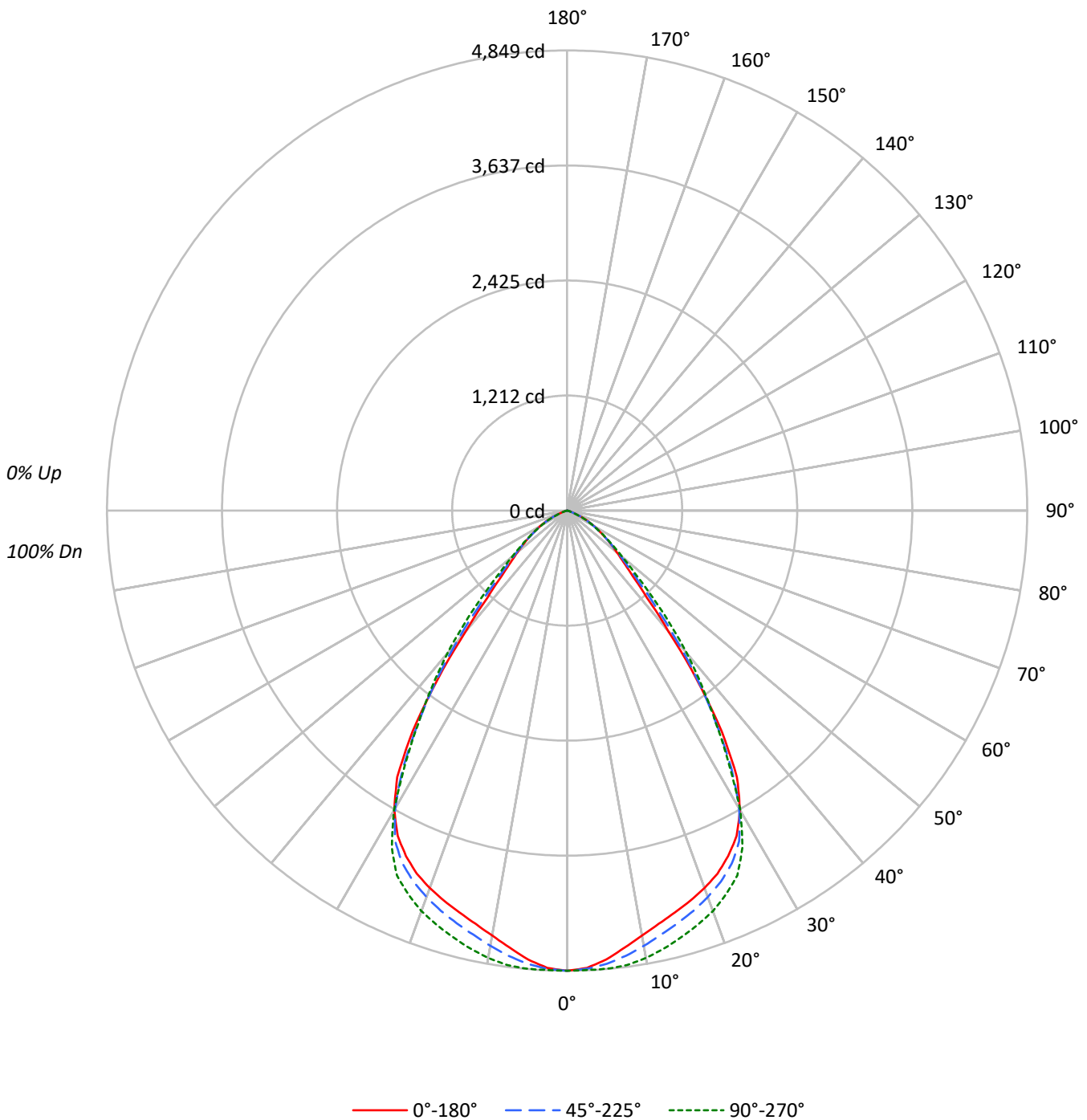
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91					91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	83					83			
3	99	91	85	81	97	90	84	80	87	83	79	85	81	78	82	79	76	75					75			
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	72	69	68					68			
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61					61			
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56					56			
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51					51			
8	72	61	54	50	71	61	54	49	59	54	49	58	53	49	57	52	49	47					47			
9	68	57	50	46	67	57	50	46	56	50	45	55	49	45	54	49	45	44					44			
10	65	53	47	42	63	53	47	42	52	46	42	51	46	42	50	45	42	40					40			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	453.4	6.6
10°-20°	1273.3	18.6
20°-30°	1875.3	27.4
30°-40°	1705.7	24.9
40°-50°	883.0	12.9
50°-60°	442.3	6.5
60°-70°	180.1	2.6
70°-80°	28.7	0.4
80°-90°	3.1	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°	3602.1	52.6
0°-40°	5307.7	77.5
0°-60°	6633.0	96.9
0°-90°	6845.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6845.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4849	4849	4849	4849	4849	
5°	4748	4760	4793	4830	4846	447
15°	4384	4414	4500	4604	4654	1239
25°	4017	4044	4105	4199	4243	1839
35°	2839	2821	2739	2716	2732	1712
45°	973	1007	1082	1166	1218	802
55°	481	480	480	489	497	437
65°	186	185	178	176	173	187
75°	25	24	22	21	21	31
85°	2	2	2	2	2	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4848.9	4848.9	4848.9	4848.9	4848.9
2.5°	4823.1	4825.6	4832.3	4839.7	4845.5
5°	4747.6	4760.1	4793.3	4829.8	4846.4
7.5°	4644.7	4672.1	4732.7	4800.7	4830.6
10°	4546.8	4578.4	4657.2	4748.5	4786.6
12.5°	4460.5	4491.2	4576.7	4678.8	4726.1
15°	4384.2	4414.1	4500.4	4604.1	4653.9
17.5°	4312.0	4339.4	4421.5	4525.3	4575.9
20°	4231.5	4255.6	4333.6	4434.0	4490.4
22.5°	4140.3	4158.5	4231.5	4327.0	4376.7
25°	4016.6	4044.0	4105.4	4199.2	4243.2
27.5°	3865.6	3883.1	3925.4	3982.6	4000.9
30°	3641.6	3640.8	3626.7	3626.7	3649.9
32.5°	3330.5	3290.6	3223.4	3182.8	3179.5
35°	2839.3	2821.0	2738.9	2715.7	2732.3
37.5°	2240.2	2252.7	2273.4	2306.6	2336.5
40°	1663.6	1695.1	1812.1	1916.6	1962.3
42.5°	1241.3	1281.9	1401.4	1515.9	1571.5
45°	973.3	1007.3	1081.9	1165.7	1218.0
47.5°	804.8	822.2	862.1	918.5	945.0
50°	681.2	689.5	707.7	736.8	757.5
52.5°	578.3	575.0	584.9	604.0	611.5
55°	481.2	479.6	479.6	488.7	497.0
57.5°	399.1	396.6	391.6	395.8	398.3
60°	326.9	324.4	320.3	319.4	318.6
62.5°	263.0	258.9	250.6	248.9	248.9
65°	185.9	185.0	178.4	175.9	173.4
67.5°	115.3	112.0	106.2	101.2	100.4
70°	68.9	68.0	63.1	59.7	59.7
72.5°	41.5	39.8	37.3	35.7	34.8
75°	24.9	24.1	22.4	20.7	20.7
77.5°	14.9	14.1	13.3	12.4	12.4
80°	8.3	8.3	7.5	7.5	7.5
82.5°	5.0	5.0	4.1	4.1	4.1
85°	2.5	2.5	2.5	1.7	1.7
87.5°	0.8	0.8	0.8	0.8	0.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)