

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: P248094

Luminaire Tested: **LD8B175D010 ER8B175830 8LBW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248094
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-72)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B175830 8LBW0WH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18119.0 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

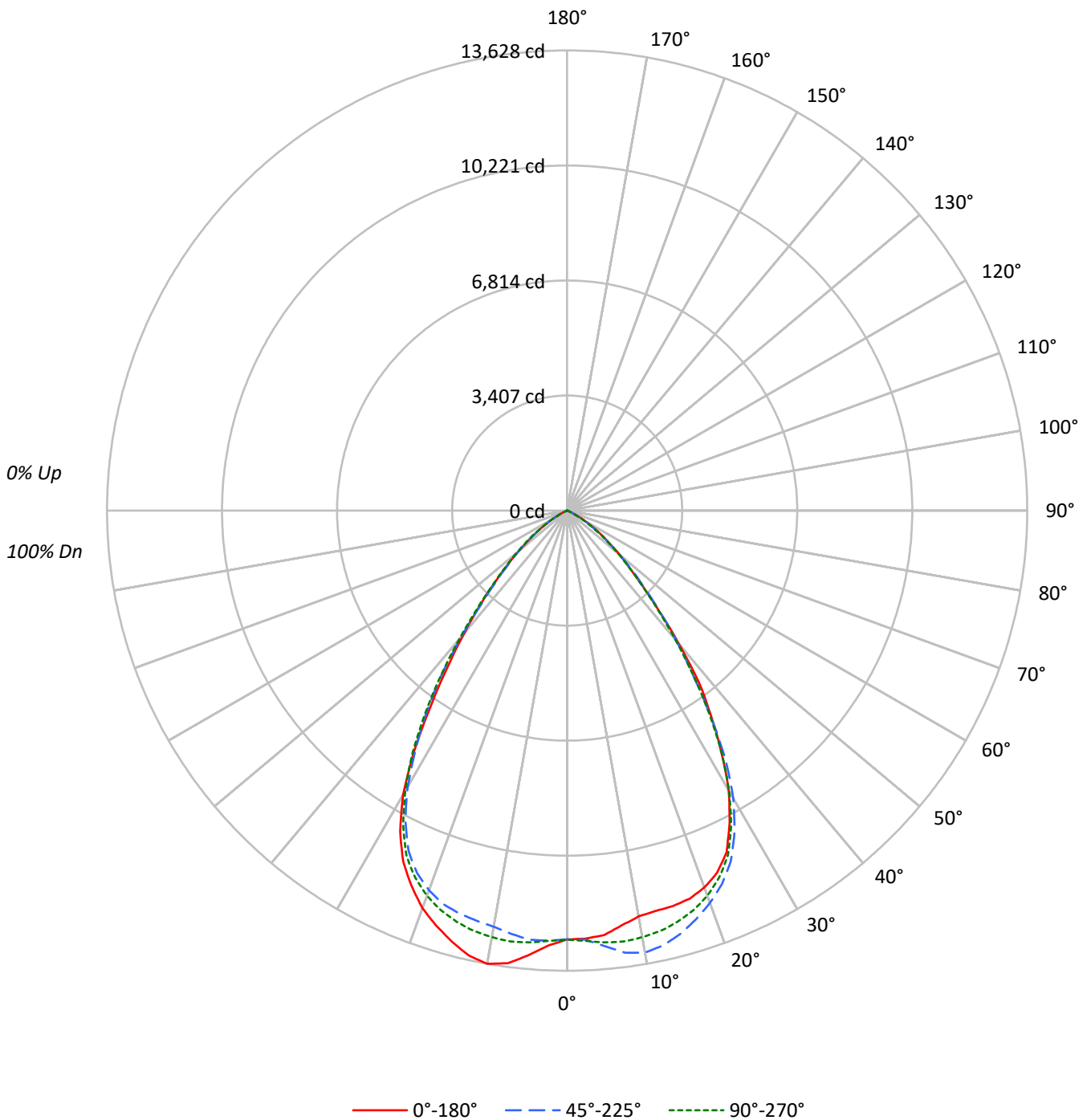
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92					92			
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85	84					84			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76					76			
4	94	85	79	74	92	84	78	73	82	76	72	79	75	72	78	74	71	69					69			
5	88	78	72	67	86	77	71	66	76	70	66	74	69	65	72	68	65	63					63			
6	83	72	66	61	81	72	65	61	70	64	60	69	64	60	67	63	59	58					58			
7	78	67	60	56	76	67	60	55	65	59	55	64	59	55	63	58	54	53					53			
8	73	63	56	51	72	62	55	51	61	55	51	60	54	50	59	54	50	49					49			
9	69	58	52	47	68	58	51	47	57	51	47	56	51	47	55	50	47	45					45			
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42					42			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	391692	391692	391692
5°	390532	397355	409216
10°	382129	401711	426730
15°	386930	402630	421727
20°	389823	398303	411199
25°	379842	383387	390736
30°	340721	341611	345709
35°	279911	275785	263848
40°	206801	200110	189886
45°	137159	136117	134081
50°	97030	92813	90625
55°	64847	59009	55799
60°	36492	31669	28857
65°	14097	10142	8398
70°	4111	2353	1956
75°	1168	643	774
80°	0	0	0
85°	778	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1228.7	6.8
10°-20°	3563.3	19.7
20°-30°	5117.1	28.2
30°-40°	4523.3	25.0
40°-50°	2476.0	13.7
50°-60°	1019.3	5.6
60°-70°	182.6	1.0
70°-80°	7.9	0.0
80°-90°	0.6	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°	9909.2	54.7
0°-40°	14432.5	79.7
0°-60°	17927.8	98.9
0°-90°	18119.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18119.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12702	12702	12702	12702	12702	
5°	12616	12955	12837	12759	13220	###
15°	12120	12977	12612	12352	13210	3423
25°	11164	11466	11268	11119	11484	5050
35°	7436	7370	7326	7226	7009	4613
45°	3145	3237	3121	2988	3075	2531
55°	1206	1150	1098	1062	1038	1093
65°	193	151	139	112	115	225
75°	10	4	5	6	6	15
85°	2	2	0	6	0	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	12702.3	12702.3	12702.3	12702.3	12702.3	12702.3	12702.3	12702.3	12702.3
2.5°	12686.0	12708.8	12719.6	12777.2	12757.6	12730.5	12745.7	12792.4	12893.3
5°	12616.5	12738.1	12955.2	13029.0	12836.9	12669.7	12758.7	13013.8	13220.1
7.5°	12387.4	12693.6	13207.1	13318.9	12873.8	12489.5	12644.7	13195.1	13520.8
10°	12203.9	12583.9	13289.6	13455.7	12829.3	12332.0	12513.3	13186.5	13628.3
12.5°	12142.0	12492.7	13185.4	13373.2	12754.4	12276.7	12436.3	13059.4	13491.5
15°	12120.3	12401.5	12976.9	13127.8	12612.1	12222.4	12351.6	12852.1	13210.3
17.5°	12053.0	12262.6	12691.4	12814.1	12416.7	12114.9	12214.8	12603.5	12891.2
20°	11879.3	12057.4	12365.7	12451.5	12137.7	11901.0	11965.1	12257.1	12530.7
22.5°	11607.9	11723.0	11972.7	12013.9	11765.3	11576.4	11616.6	11834.8	12034.6
25°	11163.9	11244.2	11465.7	11476.5	11268.1	11103.1	11119.4	11301.7	11484.1
27.5°	10416.9	10568.9	10731.8	10778.5	10516.8	10323.6	10373.5	10495.1	10709.0
30°	9569.0	9680.9	9840.4	9804.6	9594.0	9420.3	9440.9	9549.5	9709.1
32.5°	8511.6	8629.9	8711.4	8637.5	8531.1	8375.9	8329.2	8375.9	8419.3
35°	7435.7	7475.9	7369.5	7327.1	7326.1	7278.3	7226.2	7085.0	7009.0
37.5°	6408.7	6282.7	6091.7	6010.2	6103.6	6219.8	6063.4	5878.9	5783.3
40°	5137.4	5140.6	5021.2	4936.5	4971.2	4932.2	4863.8	4745.4	4717.2
42.5°	4015.9	4027.8	4065.8	4018.0	3934.4	3807.4	3769.4	3774.8	3858.4
45°	3145.2	3169.0	3237.4	3230.9	3121.3	3040.9	2987.7	3062.7	3074.6
47.5°	2501.4	2535.0	2563.2	2561.1	2476.4	2396.1	2372.2	2386.3	2415.6
50°	2022.6	2019.3	1997.6	1969.4	1934.7	1918.4	1891.2	1889.1	1889.1
52.5°	1557.9	1563.4	1519.9	1522.1	1505.8	1460.2	1448.3	1424.4	1424.4
55°	1206.2	1184.5	1149.7	1116.1	1097.6	1066.1	1061.8	1036.8	1037.9
57.5°	856.6	837.0	795.8	775.2	761.0	752.4	733.9	714.4	705.7
60°	591.7	575.4	552.6	532.0	513.5	509.2	491.8	472.3	467.9
62.5°	357.2	352.8	312.7	305.1	291.0	284.4	272.5	259.5	260.6
65°	193.2	165.0	150.9	142.2	139.0	121.6	111.8	109.7	115.1
67.5°	52.1	52.1	42.3	40.2	40.2	29.3	33.7	32.6	42.3
70°	45.6	32.6	28.2	22.8	26.1	15.2	28.2	22.8	21.7
72.5°	23.9	13.0	10.9	10.9	11.9	7.6	17.4	9.8	7.6
75°	9.8	6.5	4.3	2.2	5.4	5.4	6.5	2.2	6.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.2	3.3	2.2	0.0	0.0	0.0	6.5	0.0	0.0
87.5°	0.0	2.2	1.1	0.0	0.0	0.0	2.2	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)