

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: P247776

Luminaire Tested: **LD8B175D010 ER8B175840 8LBW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247776
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-69)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B175840 8LBW0LI
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 4000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19212.0 lumens
Efficiency: N/A
Efficacy: 108.4 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

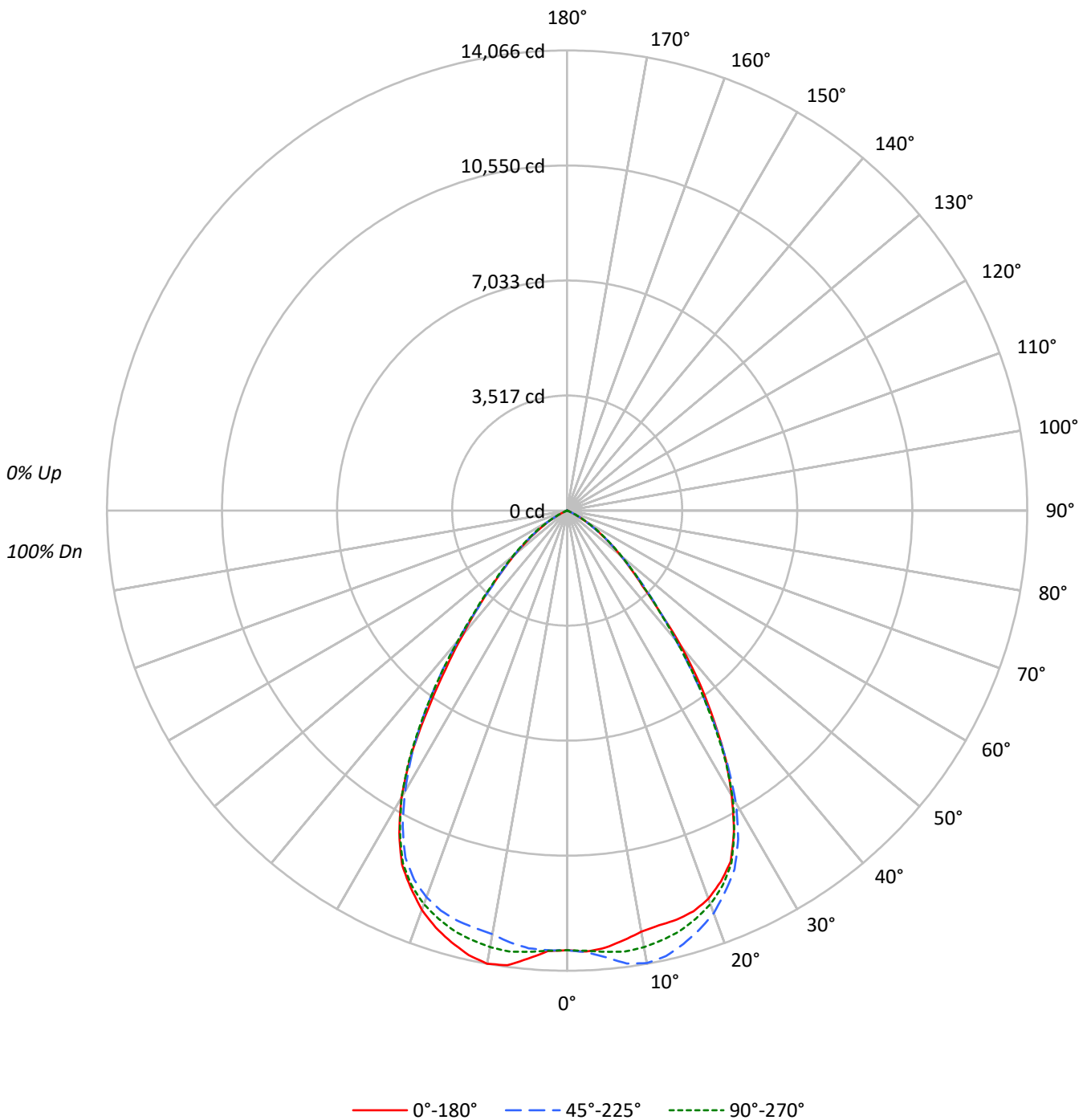
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	100	98	96	96	95	94	92					92			
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	90	87	85	83					83			
3	100	92	86	82	97	91	85	81	88	84	80	86	82	79	83	80	77	76					76			
4	93	85	78	73	92	84	78	73	81	76	72	79	75	71	77	74	70	69					69			
5	88	78	71	66	86	77	71	66	75	70	65	73	69	65	72	68	64	63					63			
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57					57			
7	78	67	60	55	76	66	60	55	65	59	55	64	58	54	62	58	54	53					53			
8	73	62	55	51	72	62	55	51	60	55	50	59	54	50	58	54	50	48					48			
9	69	58	51	47	68	58	51	47	57	51	47	56	50	46	55	50	46	45					45			
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	41					41			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	414341	414341	414341
5°	415194	419115	425576
10°	409214	424278	440435
15°	413344	424731	436083
20°	414395	420174	426097
25°	402641	404360	406496
30°	358111	360187	360507
35°	294118	287782	279086
40°	218023	209357	200054
45°	141747	145218	140526
50°	102340	104115	99649
55°	68196	70186	63734
60°	38249	41296	36177
65°	12032	14980	12601
70°	3138	3642	2930
75°	2002	1465	2407
80°	391	1190	0
85°	4352	1203	1592



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1294.9	6.7
10°-20°	3750.2	19.5
20°-30°	5379.1	28.0
30°-40°	4746.7	24.7
40°-50°	2628.2	13.7
50°-60°	1158.2	6.0
60°-70°	234.0	1.2
70°-80°	17.5	0.1
80°-90°	3.2	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°	10424.2	54.3
0°-40°	15170.9	79.0
0°-60°	18957.2	98.7
0°-90°	19212.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19212.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	13437	13437	13437	13437	13437	
5°	13413	13708	13540	13430	13749	###
15°	12948	13718	13304	12979	13660	3653
25°	11834	12100	11884	11706	11947	5346
35°	7813	7701	7645	7650	7414	4846
45°	3250	3388	3330	3206	3222	2647
55°	1268	1263	1306	1238	1186	1163
65°	165	177	205	186	173	227
75°	17	17	12	14	20	16
85°	12	7	3	10	4	6
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°	13436.8	13436.8	13436.8	13436.8	13436.8	13436.8	13436.8	13436.8	13436.8
2.5°	13492.8	13436.8	13510.8	13464.8	13468.2	13398.6	13453.6	13506.3	13477.1
5°	13413.2	13464.8	13708.2	13701.5	13539.9	13330.2	13430.0	13670.0	13748.6
7.5°	13248.3	13434.5	13962.8	14011.0	13596.0	13154.1	13316.7	13817.0	14016.6
10°	13068.9	13336.9	14046.9	14141.1	13550.0	12967.9	13151.9	13782.2	14066.0
12.5°	12982.5	13241.6	13949.3	14040.2	13444.6	12878.2	13064.4	13649.9	13913.4
15°	12947.7	13142.9	13718.3	13801.3	13304.4	12827.7	12979.1	13458.1	13660.0
17.5°	12842.3	12976.9	13432.3	13485.0	13082.3	12704.4	12823.2	13190.0	13366.1
20°	12628.1	12717.8	13100.3	13128.3	12804.2	12483.4	12575.4	12864.7	12984.7
22.5°	12274.8	12334.2	12616.9	12627.0	12415.0	12136.8	12213.1	12439.7	12484.5
25°	11834.0	11839.6	12099.8	12051.6	11884.5	11626.5	11706.1	11900.2	11947.3
27.5°	11041.0	11060.1	11323.7	11259.7	11062.3	10838.0	10887.4	11064.6	11111.7
30°	10057.4	10163.9	10316.5	10285.1	10115.7	9890.3	9900.4	10074.2	10124.7
32.5°	9023.3	8991.9	9070.4	9046.8	8959.3	8781.0	8840.4	8885.3	8897.6
35°	7813.1	7787.3	7700.9	7592.1	7644.8	7714.4	7650.4	7551.7	7413.8
37.5°	6650.0	6505.3	6337.0	6223.8	6411.1	6484.0	6421.2	6206.9	6095.9
40°	5416.2	5263.7	5172.8	5144.8	5200.9	5254.7	5184.0	5079.7	4969.8
42.5°	4176.8	4175.7	4198.1	4192.5	4154.4	4077.0	4020.9	4065.8	4047.9
45°	3250.4	3300.9	3388.4	3402.9	3330.0	3216.7	3205.5	3248.2	3222.4
47.5°	2645.9	2663.8	2695.2	2740.1	2698.6	2641.4	2612.2	2625.7	2602.1
50°	2133.3	2137.8	2152.3	2186.0	2170.3	2131.0	2103.0	2086.2	2077.2
52.5°	1675.7	1665.6	1676.8	1688.0	1709.3	1683.5	1660.0	1624.1	1596.0
55°	1268.5	1260.7	1262.9	1271.9	1305.5	1276.4	1238.2	1214.7	1185.5
57.5°	920.8	895.0	900.6	930.9	962.3	950.0	916.3	878.2	842.3
60°	620.2	614.6	613.5	646.0	669.6	665.1	627.0	598.9	586.6
62.5°	366.8	363.4	372.4	387.0	415.0	394.8	369.0	354.4	349.9
65°	164.9	172.7	177.2	188.4	205.3	200.8	186.2	170.5	172.7
67.5°	71.8	55.0	61.7	69.5	65.1	68.4	60.6	63.9	61.7
70°	34.8	37.0	34.8	43.7	40.4	42.6	34.8	41.5	32.5
72.5°	24.7	21.3	26.9	31.4	26.9	31.4	28.0	21.3	16.8
75°	16.8	10.1	16.8	10.1	12.3	17.9	13.5	17.9	20.2
77.5°	2.2	7.9	3.4	4.5	2.2	5.6	5.6	3.4	10.1
80°	2.2	3.4	2.2	4.5	6.7	1.1	4.5	10.1	0.0
82.5°	7.9	0.0	1.1	0.0	1.1	2.2	0.0	2.2	0.0
85°	12.3	3.4	6.7	15.7	3.4	6.7	10.1	4.5	4.5
87.5°	0.0	0.0	0.0	0.0	0.0	1.1	0.0	3.4	6.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)