

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: P247770

Luminaire Tested: **LD8B175D010 ER8B175830 8LBW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247770
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 ER8B175830 8LBW0LI
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 3000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18597.0 lumens
Efficiency: N/A
Efficacy: 104.9 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

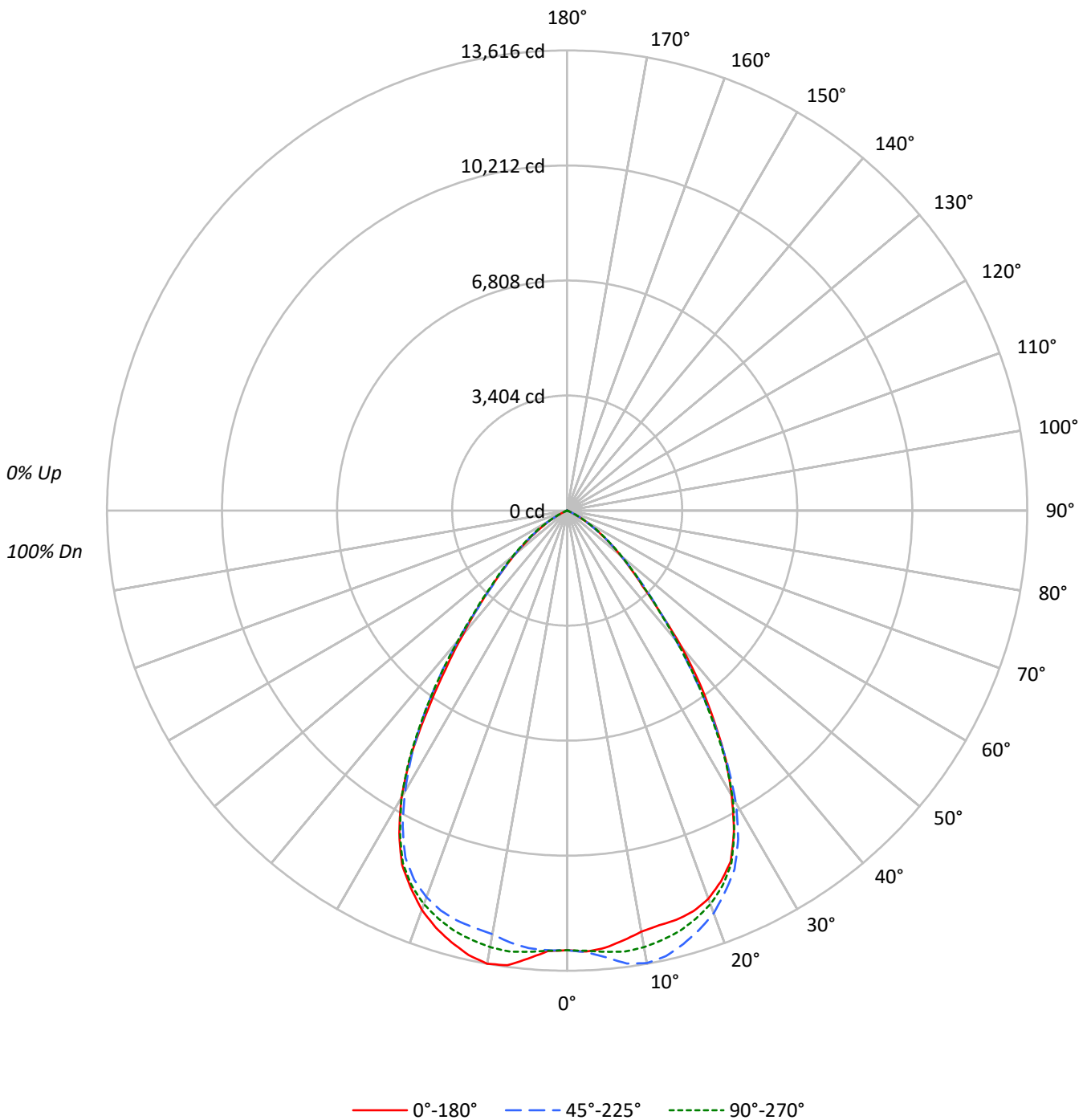
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	401076	401076	401076
5°	401902	405700	411953
10°	396113	410698	426335
15°	400114	411135	422123
20°	401128	406723	412459
25°	389753	391413	393482
30°	346646	348657	348967
35°	284703	278571	270150
40°	211043	202654	193650
45°	137207	140570	136026
50°	99064	100781	96459
55°	66014	67938	61697
60°	37028	39976	35018
65°	11645	14498	12200
70°	3038	3525	2840
75°	1942	1418	2323
80°	391	1154	0
85°	4210	1168	1521



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1253.4	6.7
10°-20°	3630.1	19.5
20°-30°	5206.9	28.0
30°-40°	4594.8	24.7
40°-50°	2544.1	13.7
50°-60°	1121.1	6.0
60°-70°	226.5	1.2
70°-80°	17.0	0.1
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°	10090.5	54.3
0°-40°	14685.2	79.0
0°-60°	18350.4	98.7
0°-90°	18597.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18597.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	13007	13007	13007	13007	13007	
5°	12984	13269	13106	13000	13308	###
15°	12533	13279	12878	12564	13223	3536
25°	11455	11712	11504	11331	11565	5175
35°	7563	7454	7400	7406	7176	4691
45°	3146	3280	3223	3103	3119	2562
55°	1228	1222	1264	1199	1148	1125
65°	160	172	199	180	167	220
75°	16	16	12	13	20	16
85°	12	6	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°	13006.6	13006.6	13006.6	13006.6	13006.6	13006.6	13006.6	13006.6	13006.6
2.5°	13060.9	13006.6	13078.3	13033.8	13037.0	12969.7	13022.9	13073.9	13045.7
5°	12983.8	13033.8	13269.4	13262.9	13106.5	12903.5	13000.1	13232.5	13308.5
7.5°	12824.2	13004.5	13515.8	13562.5	13160.8	12733.0	12890.5	13374.7	13567.9
10°	12650.5	12910.0	13597.2	13688.4	13116.3	12552.8	12730.9	13341.0	13615.7
12.5°	12566.9	12817.7	13502.8	13590.7	13014.2	12466.0	12646.2	13212.9	13468.0
15°	12533.3	12722.2	13279.1	13359.5	12878.5	12417.1	12563.7	13027.3	13222.7
17.5°	12431.2	12561.5	13002.3	13053.3	12663.5	12297.7	12412.8	12767.8	12938.2
20°	12223.8	12310.7	12680.9	12708.1	12394.3	12083.8	12172.8	12452.9	12569.1
22.5°	11881.8	11939.4	12213.0	12222.8	12017.6	11748.3	11822.1	12041.4	12084.9
25°	11455.2	11460.6	11712.5	11665.8	11504.0	11254.3	11331.4	11519.2	11564.8
27.5°	10687.6	10706.0	10961.2	10899.3	10708.2	10491.1	10538.8	10710.4	10756.0
30°	9735.4	9838.6	9986.2	9955.8	9791.9	9573.7	9583.4	9751.7	9800.6
32.5°	8734.4	8704.0	8780.0	8757.2	8672.5	8499.9	8557.4	8600.9	8612.8
35°	7563.0	7538.0	7454.4	7349.1	7400.1	7467.4	7405.5	7310.0	7176.4
37.5°	6437.1	6297.0	6134.2	6024.5	6205.8	6276.4	6215.6	6008.2	5900.8
40°	5242.8	5095.2	5007.2	4980.1	5034.4	5086.5	5018.1	4917.1	4810.7
42.5°	4043.1	4042.0	4063.8	4058.3	4021.4	3946.5	3892.2	3935.6	3918.3
45°	3146.3	3195.2	3279.9	3294.0	3223.4	3113.8	3102.9	3144.2	3119.2
47.5°	2561.2	2578.5	2608.9	2652.4	2612.2	2556.8	2528.6	2541.6	2518.8
50°	2065.0	2069.3	2083.4	2116.0	2100.8	2062.8	2035.7	2019.4	2010.7
52.5°	1622.0	1612.3	1623.1	1634.0	1654.6	1629.6	1606.8	1572.1	1544.9
55°	1227.9	1220.3	1222.5	1231.2	1263.7	1235.5	1198.6	1175.8	1147.6
57.5°	891.4	866.4	871.8	901.1	931.5	919.6	887.0	850.1	815.4
60°	600.4	595.0	593.9	625.4	648.2	643.8	606.9	579.8	567.8
62.5°	355.0	351.8	360.5	374.6	401.7	382.2	357.2	343.1	338.7
65°	159.6	167.2	171.5	182.4	198.7	194.3	180.2	165.0	167.2
67.5°	69.5	53.2	59.7	67.3	63.0	66.2	58.6	61.9	59.7
70°	33.7	35.8	33.7	42.3	39.1	41.3	33.7	40.2	31.5
72.5°	23.9	20.6	26.1	30.4	26.1	30.4	27.1	20.6	16.3
75°	16.3	9.8	16.3	9.8	11.9	17.4	13.0	17.4	19.5
77.5°	2.2	7.6	3.3	4.3	2.2	5.4	5.4	3.3	9.8
80°	2.2	3.3	2.2	4.3	6.5	1.1	4.3	9.8	0.0
82.5°	7.6	0.0	1.1	0.0	1.1	2.2	0.0	2.2	0.0
85°	11.9	3.3	6.5	15.2	3.3	6.5	9.8	4.3	4.3
87.5°	0.0	0.0	0.0	0.0	0.0	1.1	0.0	3.3	6.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)