

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: P250188

Luminaire Tested: **LD8B175D010 ER8B175950 8LBM0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250188
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13942)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B175950 8LBM0WH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT
90 CRI 5000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16839.0 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.8 / 0.85
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

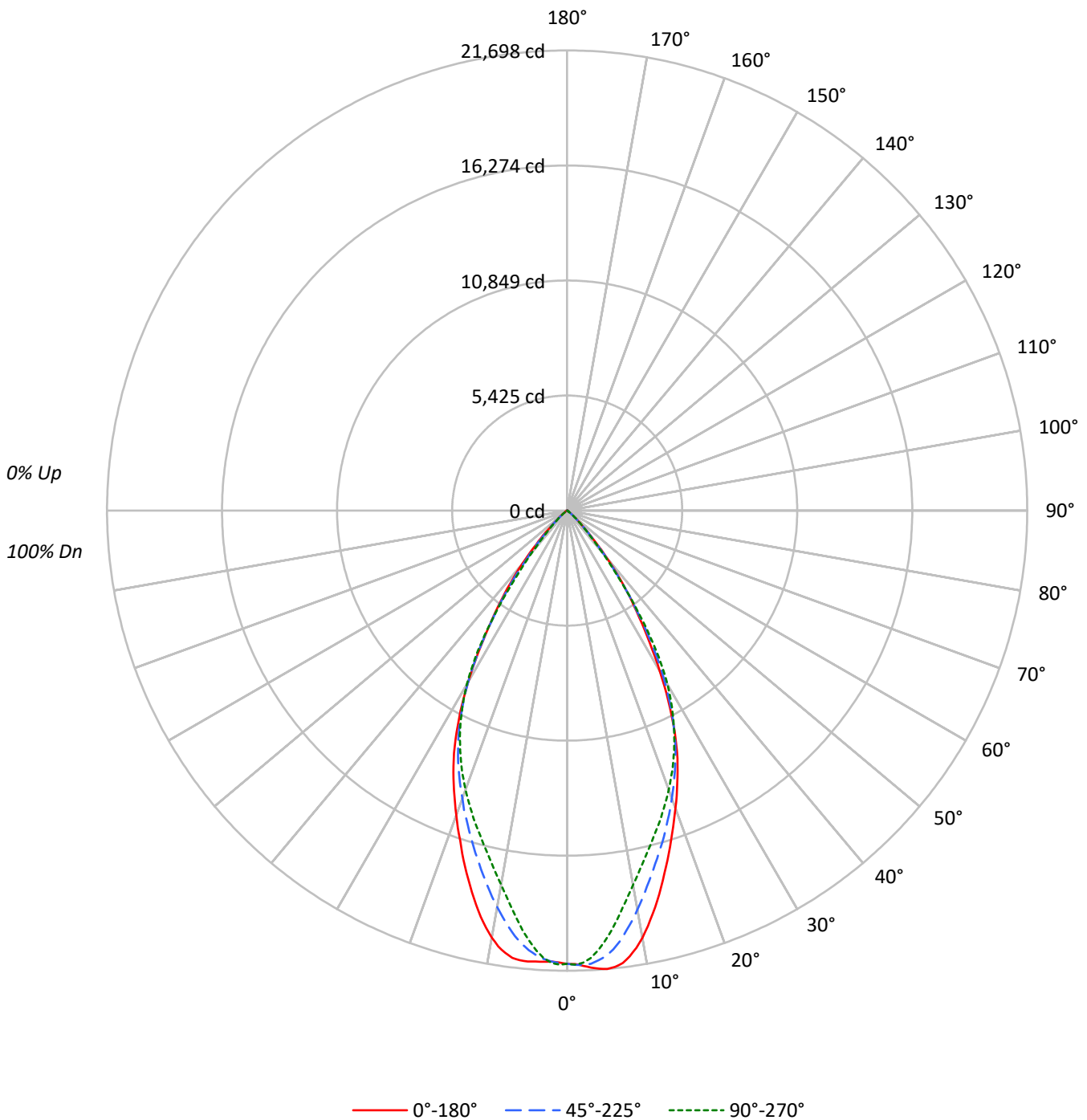
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100	100	100	100		
1	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94	94	94	94	94	94	94		
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87	87	87	87	87	87	87		
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	81	81	81	81	81	81	81		
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76	76	76	76	76	76	76		
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71	71	71	71	71	71	71		
6	88	80	74	69	87	79	73	69	77	72	69	76	72	68	75	71	68	66	66	66	66	66	66	66		
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62	62	62	62	62	62	62		
8	80	71	65	61	79	70	64	61	69	64	60	68	63	60	67	63	60	58	58	58	58	58	58	58		
9	76	67	61	57	75	66	61	57	65	60	57	64	60	56	64	59	56	55	55	55	55	55	55	55		
10	73	63	57	54	72	63	57	54	62	57	53	61	56	53	60	56	53	52	52	52	52	52	52	52		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	658978	658978	658978
5°	671630	630938	660687
10°	640346	561280	640184
15°	565452	506236	575071
20°	490018	459497	501612
25°	414022	406952	429224
30°	311178	336893	332453
35°	208304	220237	225907
40°	116704	100180	133856
45°	46902	41237	55741
50°	16200	15706	19194
55°	4468	5312	5032
60°	2566	3207	2886
65°	2269	1890	1510
70°	0	1406	938
75°	0	0	0
80°	0	0	923
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1940.0	11.5
10°-20°	4692.2	27.9
20°-30°	5499.4	32.7
30°-40°	3618.3	21.5
40°-50°	944.2	5.6
50°-60°	116.1	0.7
60°-70°	24.1	0.1
70°-80°	4.5	0.0
80°-90°	0.1	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°	12131.6	72.0
0°-40°	15749.9	93.5
0°-60°	16810.3	99.8
0°-90°	16839.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16839.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	21370	21370	21370	21370	21370	
5°	21698	21079	20383	20804	21344	###
15°	17712	16710	15858	16710	18014	4937
25°	12168	12049	11961	12163	12615	5486
35°	5534	5658	5850	5908	6001	3465
45°	1076	1013	946	1096	1278	964
55°	83	88	99	99	94	110
65°	31	26	26	21	21	22
75°	0	5	0	0	0	3
85°	0	0	0	0	0	0
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°	21370.2	21370.2	21370.2	21370.2	21370.2	21370.2	21370.2	21370.2	21370.2
1°	21385.7	21417.0	21427.3	21458.5	21411.8	21380.6	21339.0	21307.8	21313.0
2°	21479.3	21494.9	21437.7	21417.0	21333.8	21307.8	21276.6	21271.4	21276.6
3°	21578.1	21546.8	21396.1	21255.9	21131.2	21115.6	21172.8	21255.9	21302.6
4°	21656.0	21572.8	21255.9	20996.0	20798.6	20783.1	21011.7	21224.6	21313.0
5°	21697.6	21546.8	21079.2	20642.7	20383.0	20481.7	20803.8	21183.1	21344.1
6°	21640.3	21417.0	20809.0	20227.2	19930.9	20060.9	20533.7	21084.4	21323.4
7°	21494.9	21209.1	20460.9	19775.1	19411.3	19614.0	20216.7	20918.1	21245.5
8°	21224.6	20881.8	20019.3	19250.3	18891.8	19120.3	19827.1	20679.1	21058.5
9°	20871.3	20492.1	19582.8	18772.3	18387.8	18658.0	19421.8	20362.2	20798.6
10°	20450.5	20045.2	19099.6	18273.5	17925.4	18180.0	18985.3	19993.2	20445.3
11°	19956.9	19567.2	18616.4	17805.9	17473.4	17722.8	18548.9	19551.7	20040.0
12°	19421.8	19063.3	18122.9	17353.9	17042.1	17281.1	18081.3	19094.4	19577.6
13°	18886.6	18528.0	17644.9	16917.4	16631.6	16860.2	17624.0	18595.7	19078.8
14°	18309.9	17982.5	17166.8	16501.7	16242.0	16460.1	17156.4	18091.6	18548.9
15°	17712.4	17452.5	16709.5	16101.6	15857.5	16065.2	16709.5	17572.0	18013.7
16°	17151.2	16912.2	16267.9	15706.7	15504.2	15670.4	16257.6	17052.5	17473.4
17°	16579.6	16361.5	15826.2	15317.1	15135.3	15296.4	15795.1	16527.7	16907.0
18°	16008.2	15826.2	15343.1	14906.7	14745.6	14891.1	15337.9	15997.7	16340.6
19°	15478.2	15311.9	14901.5	14532.5	14387.1	14516.9	14937.8	15488.6	15831.5
20°	14932.6	14797.5	14439.0	14137.7	14002.5	14122.0	14449.4	14984.6	15285.9
21°	14407.8	14288.3	13976.6	13722.0	13612.9	13711.7	14013.0	14496.2	14761.1
22°	13862.3	13794.8	13514.2	13301.1	13228.4	13290.7	13566.1	13981.8	14231.2
23°	13327.1	13264.8	13051.7	12875.1	12812.7	12875.1	13119.3	13493.4	13716.9
24°	12786.8	12719.3	12563.4	12449.0	12397.1	12449.0	12656.8	12973.8	13186.9
25°	12168.5	12158.1	12049.0	11986.6	11960.7	12017.8	12163.3	12438.7	12615.3
26°	11576.1	11545.0	11513.8	11503.4	11508.6	11539.7	11659.2	11867.1	12007.5
27°	10848.8	10895.6	10942.2	11004.6	11025.4	11051.4	11108.5	11259.2	11363.2
28°	10152.5	10240.8	10355.1	10479.8	10537.0	10537.0	10542.1	10625.3	10713.6
29°	9461.5	9555.0	9736.9	9923.9	10001.8	9991.4	9949.8	9986.2	10038.2
30°	8739.3	8858.8	9103.0	9347.2	9461.5	9419.9	9342.0	9305.7	9336.8
31°	8032.7	8152.2	8422.3	8687.3	8837.9	8791.3	8656.1	8630.2	8645.7
32°	7357.2	7476.7	7726.0	8006.6	8178.1	8115.8	7975.5	7933.9	7939.1
33°	6702.5	6796.1	7024.7	7284.5	7424.7	7409.1	7294.8	7242.9	7248.0
34°	6084.3	6162.2	6333.6	6531.1	6666.1	6660.9	6577.8	6583.0	6598.6
35°	5533.5	5575.1	5658.1	5767.3	5850.5	5897.1	5907.6	5949.1	6001.1
37.5°	4182.6	4198.1	4099.5	3990.3	3969.6	4104.7	4338.5	4541.1	4619.1
40°	2899.2	2862.9	2738.2	2545.9	2488.7	2639.5	2935.6	3221.4	3325.3
42.5°	1803.0	1787.3	1709.4	1564.0	1512.0	1600.3	1823.7	2042.0	2145.9
45°	1075.5	1054.7	1013.1	956.0	945.6	982.0	1096.3	1221.0	1278.2
47.5°	618.2	613.2	587.1	566.4	561.2	587.1	639.1	711.8	727.4
50°	337.7	332.6	327.4	327.4	327.4	342.9	368.9	389.7	400.1
52.5°	166.3	171.5	166.3	171.5	176.7	187.0	181.8	202.6	202.6
55°	83.1	77.9	88.4	98.8	98.8	98.8	98.8	98.8	93.6
57.5°	62.3	67.5	57.2	62.3	57.2	57.2	52.0	57.2	62.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	41.6	36.4	41.6	46.8	52.0	46.8	36.4	41.6	46.8
62.5°	20.7	20.7	20.7	31.1	46.8	36.4	31.1	25.9	25.9
65°	31.1	20.7	25.9	31.1	25.9	25.9	20.7	25.9	20.7
67.5°	15.6	25.9	15.6	10.4	15.6	20.7	15.6	10.4	10.4
70°	0.0	5.2	5.2	15.6	15.6	15.6	15.6	10.4	10.4
72.5°	5.2	5.2	5.2	10.4	5.2	10.4	5.2	5.2	10.4
75°	0.0	0.0	5.2	5.2	0.0	5.2	0.0	0.0	0.0
77.5°	5.2	0.0	5.2	5.2	0.0	0.0	0.0	5.2	0.0
80°	0.0	0.0	5.2	0.0	0.0	0.0	0.0	0.0	5.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)