

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: P248190

Luminaire Tested: **LD8B175D010 ER8B175950 8LBW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248190
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-73)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B175950 8LBW0GPH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 5000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15118.0 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.05
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

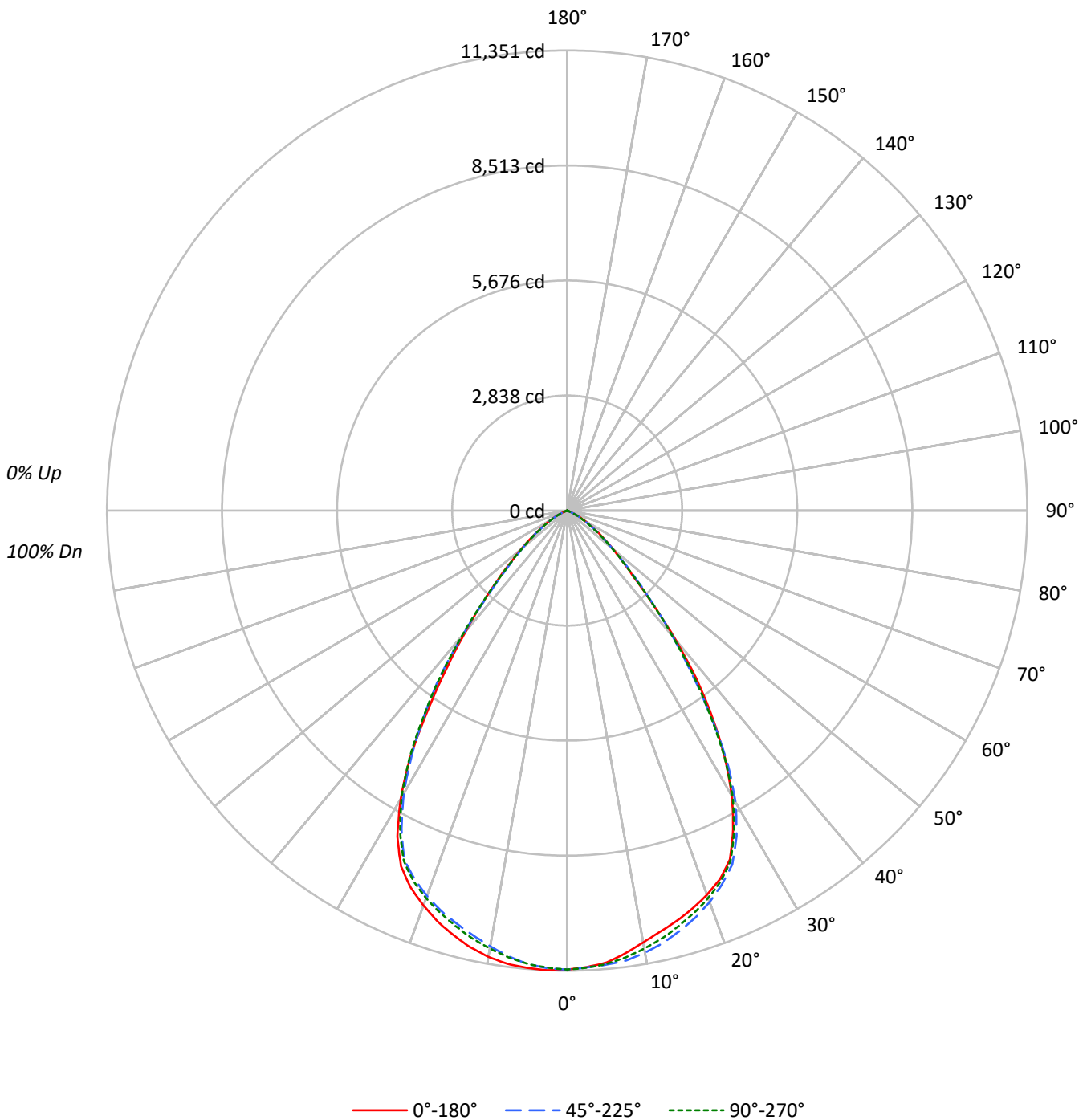
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
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	82	88	84	80	86	82	79	84	80	78	76					76			
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69					69			
5	88	79	72	67	86	78	71	67	76	70	66	74	69	65	72	68	65	63					63			
6	83	73	66	61	81	72	66	61	70	65	60	69	64	60	67	63	60	58					58			
7	78	68	61	56	77	67	60	56	65	60	55	64	59	55	63	58	55	53					53			
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49					49			
9	70	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45					45			
10	66	55	48	44	65	54	48	44	54	48	44	53	47	44	52	47	44	42					42			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	349166	349166	349166
5°	346469	347438	350595
10°	338674	343468	349987
15°	334328	338814	346092
20°	330916	333820	340075
25°	323164	324474	329646
30°	289262	290747	292377
35°	235739	230996	224179
40°	167175	162521	156532
45°	101928	103655	105743
50°	70424	69124	70573
55°	47799	44439	45842
60°	31015	27031	28382
65°	16330	12988	13980
70°	4319	3660	3282
75°	739	1489	870
80°	0	0	373
85°	743	743	743



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1064.7	7.0
10°-20°	2999.3	19.8
20°-30°	4325.0	28.6
30°-40°	3798.4	25.1
40°-50°	1920.7	12.7
50°-60°	786.1	5.2
60°-70°	206.7	1.4
70°-80°	14.6	0.1
80°-90°	2.6	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°	8389.0	55.5
0°-40°	12187.3	80.6
0°-60°	14894.1	98.5
0°-90°	15118.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15118.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11323	11323	11323	11323	11323	
5°	11193	11244	11224	11224	11326	###
15°	10473	10732	10613	10544	10841	2955
25°	9498	9634	9537	9502	9689	4291
35°	6262	6155	6136	6110	5955	3861
45°	2337	2447	2377	2316	2425	1928
55°	889	854	827	825	853	822
65°	224	199	178	176	192	229
75°	6	4	12	4	7	16
85°	2	2	2	1	2	4
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°	11323.2	11323.2	11323.2	11323.2	11323.2	11323.2	11323.2	11323.2	11323.2
2.5°	11271.1	11326.3	11277.3	11306.5	11286.7	11254.4	11299.2	11278.4	11351.3
5°	11193.0	11259.7	11244.0	11280.5	11224.3	11164.9	11224.3	11229.5	11326.3
7.5°	11015.0	11129.5	11195.1	11238.8	11114.9	11018.1	11088.9	11152.4	11277.3
10°	10816.1	10954.6	11073.3	11141.0	10969.2	10827.6	10911.9	11020.2	11177.4
12.5°	10632.9	10785.9	10926.5	10992.1	10810.9	10651.6	10731.8	10866.1	11034.8
15°	10472.6	10598.5	10731.8	10799.5	10613.1	10462.2	10544.4	10668.3	10841.1
17.5°	10289.3	10408.0	10525.7	10578.8	10405.9	10274.8	10349.7	10455.9	10627.7
20°	10084.2	10186.3	10275.8	10338.3	10172.7	10047.8	10115.5	10214.4	10363.3
22.5°	9843.7	9920.8	9979.1	10035.3	9901.0	9777.1	9835.4	9913.5	10070.7
25°	9498.1	9576.2	9634.5	9698.0	9536.6	9430.4	9502.2	9535.6	9688.6
27.5°	8865.1	8964.0	9051.4	9107.7	8923.4	8831.8	8850.5	8905.7	9068.1
30°	8123.8	8171.7	8305.0	8321.6	8165.5	8006.2	8057.2	8115.5	8211.3
32.5°	7243.0	7270.1	7347.1	7355.5	7238.9	7116.0	7117.1	7091.0	7187.9
35°	6262.3	6200.9	6155.1	6186.3	6136.3	6158.2	6110.3	5990.6	5955.2
37.5°	5249.3	5209.7	5008.8	4993.2	5109.8	5180.6	5133.7	4867.2	4848.5
40°	4153.0	4108.2	4033.3	4021.8	4037.4	4078.0	3991.6	3912.5	3888.6
42.5°	3107.7	3131.7	3155.6	3177.5	3132.7	3045.3	3041.1	3026.5	3082.7
45°	2337.3	2388.3	2446.6	2475.8	2376.9	2309.2	2316.5	2348.8	2424.8
47.5°	1848.0	1858.4	1880.3	1905.2	1846.9	1760.5	1783.4	1835.5	1868.8
50°	1468.0	1478.4	1472.1	1469.0	1440.9	1388.8	1421.1	1459.6	1471.1
52.5°	1157.7	1144.2	1132.7	1125.4	1107.7	1086.9	1093.2	1125.4	1143.1
55°	889.1	878.7	853.7	843.3	826.6	821.4	824.6	849.5	852.7
57.5°	668.4	653.8	628.8	609.1	610.1	601.8	605.9	623.6	633.0
60°	502.9	493.5	449.8	452.9	438.3	436.2	445.6	456.0	460.2
62.5°	347.7	350.9	317.5	313.4	306.1	307.1	313.4	321.7	322.7
65°	223.8	210.3	198.9	190.5	178.0	171.8	175.9	198.9	191.6
67.5°	87.5	92.7	75.0	87.5	81.2	68.7	79.1	88.5	84.3
70°	47.9	48.9	40.6	38.5	40.6	37.5	42.7	47.9	36.4
72.5°	30.2	30.2	21.9	21.9	28.1	18.7	21.9	34.4	27.1
75°	6.2	7.3	4.2	2.1	12.5	6.2	4.2	12.5	7.3
77.5°	0.0	7.3	0.0	0.0	0.0	0.0	2.1	2.1	2.1
80°	0.0	0.0	0.0	3.1	0.0	0.0	0.0	2.1	2.1
82.5°	0.0	2.1	0.0	0.0	0.0	0.0	0.0	2.1	0.0
85°	2.1	8.3	2.1	0.0	2.1	2.1	1.0	6.2	2.1
87.5°	13.5	6.2	1.0	6.2	5.2	6.2	7.3	6.2	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)