

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: P248076

Luminaire Tested: **LD8B175D010 ER8B175935 8LBS0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248076
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-93)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B175935 8LBS0WMH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 3500 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16671.0 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.22
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

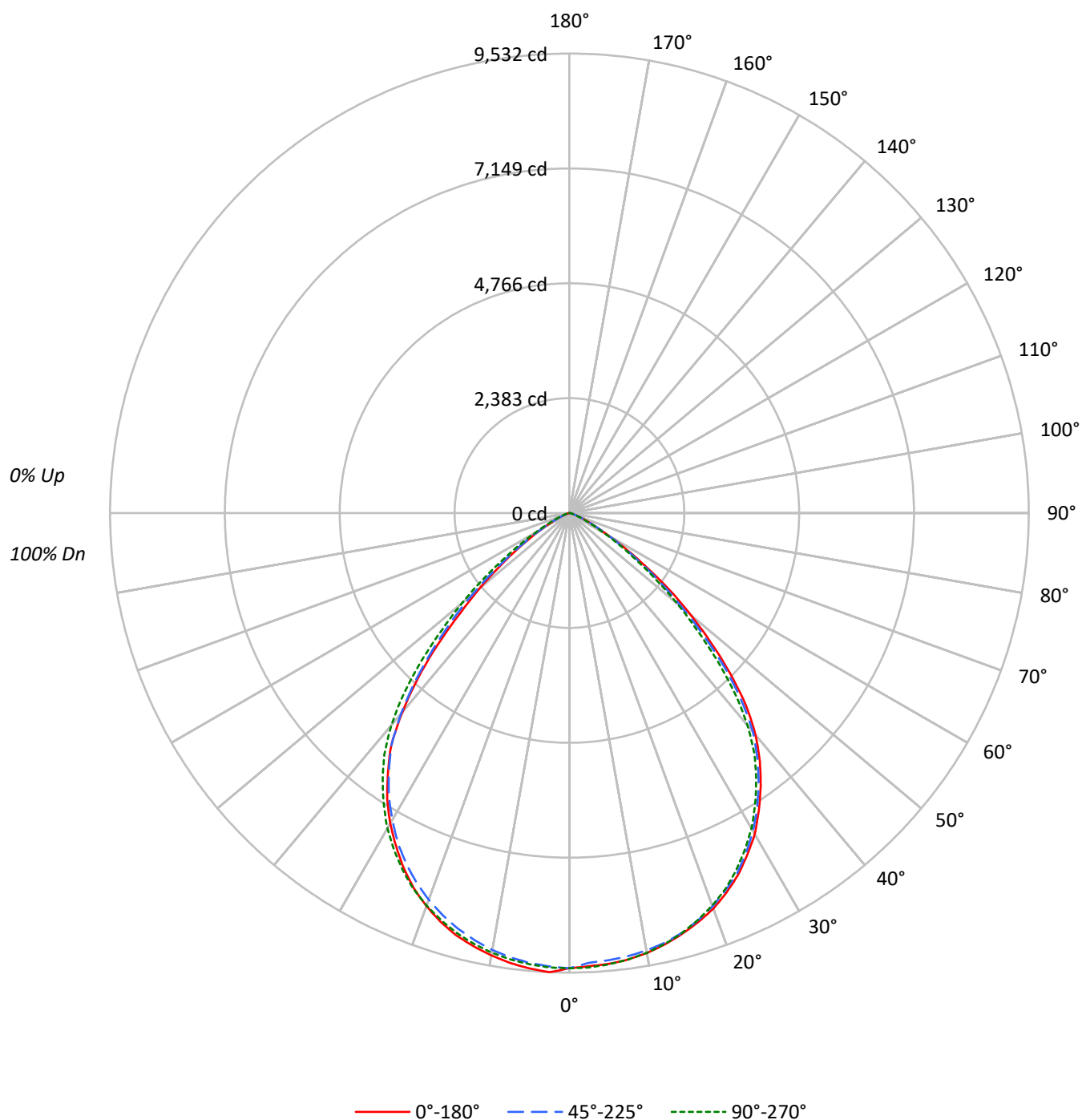
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90		
2	105	99	93	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81		
3	97	89	83	78	95	88	82	77	85	80	76	83	78	75	80	77	74	72		
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64		
5	85	74	67	61	83	73	66	61	71	65	61	69	64	60	68	63	59	58		
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52		
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47		
8	69	57	50	45	68	57	50	45	56	49	45	54	49	45	53	48	44	43		
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39		
10	61	49	42	38	60	49	42	38	48	42	38	47	41	37	46	41	37	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	291163	291163	291163
5°	290579	290876	293470
10°	290168	289987	291765
15°	288495	287971	289539
20°	286566	284289	284732
25°	281723	278351	276681
30°	273812	268980	264729
35°	260558	254290	247221
40°	241958	231573	217271
45°	206241	189826	168536
50°	157039	139903	116718
55°	103523	90223	72675
60°	58133	51127	40143
65°	30492	27260	19387
70°	14588	12848	8069
75°	8257	8948	5624
80°	6322	6162	3250
85°	3750	3078	1380



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	891.7	5.3
10°-20°	2539.8	15.2
20°-30°	3752.1	22.5
30°-40°	4181.3	25.1
40°-50°	3302.1	19.8
50°-60°	1524.9	9.1
60°-70°	391.8	2.3
70°-80°	75.4	0.5
80°-90°	11.8	0.1
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°	7183.6	43.1
0°-40°	11364.9	68.2
0°-60°	16192.0	97.1
0°-90°	16671.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16671.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9442	9442	9442	9442	9442	
5°	9387	9312	9397	9368	9481	892
15°	9037	9016	9020	8926	9070	2550
25°	8280	8242	8181	8017	8132	3805
35°	6922	6845	6755	6530	6567	4310
45°	4729	4592	4353	4005	3865	3609
55°	1926	1815	1678	1436	1352	1784
65°	418	424	374	286	266	459
75°	69	73	75	57	47	83
85°	11	11	9	5	4	15
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°	9442.2	9442.2	9442.2	9442.2	9442.2	9442.2	9442.2	9442.2	9442.2
2.5°	9406.6	9450.9	9338.3	9429.7	9433.6	9369.1	9413.4	9466.3	9531.8
5°	9387.4	9432.6	9312.3	9397.0	9397.0	9326.7	9368.1	9414.3	9480.8
7.5°	9342.1	9391.2	9272.8	9351.7	9339.2	9262.2	9298.8	9344.0	9415.3
10°	9267.0	9327.7	9212.1	9287.2	9261.2	9172.7	9204.4	9251.6	9318.0
12.5°	9164.0	9236.2	9128.4	9193.8	9152.4	9051.3	9077.3	9138.0	9203.5
15°	9036.9	9111.0	9015.7	9072.5	9020.5	8907.9	8926.2	8987.8	9069.6
17.5°	8895.4	8967.6	8860.7	8922.3	8853.0	8736.5	8743.3	8814.5	8888.6
20°	8732.7	8792.4	8682.6	8741.3	8663.3	8535.3	8536.2	8599.8	8676.8
22.5°	8518.9	8581.5	8467.9	8517.0	8445.7	8309.0	8292.7	8354.3	8428.4
25°	8280.1	8345.6	8241.6	8259.0	8181.0	8039.4	8017.3	8062.5	8131.9
27.5°	7994.2	8058.7	7941.2	7963.4	7877.7	7741.9	7712.1	7736.2	7791.0
30°	7689.9	7730.4	7618.7	7637.0	7554.2	7393.4	7348.1	7380.9	7434.8
32.5°	7315.4	7344.3	7249.0	7258.6	7169.1	7030.4	6970.7	6980.4	7035.2
35°	6921.6	6937.0	6844.6	6846.5	6755.1	6614.5	6529.8	6524.9	6567.3
37.5°	6487.4	6498.0	6404.6	6399.8	6305.4	6153.3	6064.7	6049.3	6075.3
40°	6010.8	6025.2	5928.0	5897.2	5752.8	5579.5	5435.0	5408.1	5397.5
42.5°	5433.1	5393.6	5291.6	5239.6	5094.2	4871.8	4738.0	4697.5	4662.9
45°	4729.3	4697.5	4591.6	4474.2	4352.9	4185.3	4005.3	3894.6	3864.7
47.5°	3990.8	3953.3	3801.2	3698.1	3578.8	3501.7	3308.2	3137.8	3063.7
50°	3273.5	3232.1	3062.7	2986.6	2916.3	2801.8	2614.0	2460.9	2433.0
52.5°	2610.2	2547.6	2402.2	2323.3	2260.7	2133.6	1964.1	1875.5	1828.4
55°	1925.6	1916.0	1814.9	1758.1	1678.2	1577.1	1436.5	1370.1	1351.8
57.5°	1402.8	1367.2	1328.7	1280.5	1211.2	1084.1	997.5	947.4	943.6
60°	942.6	954.1	954.1	901.2	829.0	746.2	676.9	649.9	650.9
62.5°	632.6	640.3	638.3	615.2	559.4	492.0	446.7	427.5	428.4
65°	417.9	415.9	423.6	407.3	373.6	326.4	286.0	275.4	265.7
67.5°	265.7	268.6	265.7	257.1	236.9	203.2	176.2	159.8	155.0
70°	161.8	157.9	158.9	156.9	142.5	126.1	106.9	93.4	89.5
72.5°	97.2	100.1	101.1	104.0	102.1	90.5	77.0	67.4	65.5
75°	69.3	70.3	73.2	76.1	75.1	67.4	56.8	50.1	47.2
77.5°	52.0	52.0	53.9	57.8	54.9	48.1	40.4	34.7	32.7
80°	35.6	36.6	37.5	37.5	34.7	30.8	24.1	20.2	18.3
82.5°	21.2	22.1	21.2	21.2	19.3	15.4	11.6	10.6	9.6
85°	10.6	10.6	10.6	10.6	8.7	6.7	4.8	3.9	3.9
87.5°	4.8	4.8	4.8	3.9	2.9	1.9	1.9	1.0	1.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)