

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: P248130

Luminaire Tested: **LD8B175D010 ER8B175830 8LBS0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248130  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-94)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B175D010 ER8B175830 8LBS0WH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 3000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19619.0 lumens  
Efficiency: N/A  
Efficacy: 110.7 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.23  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

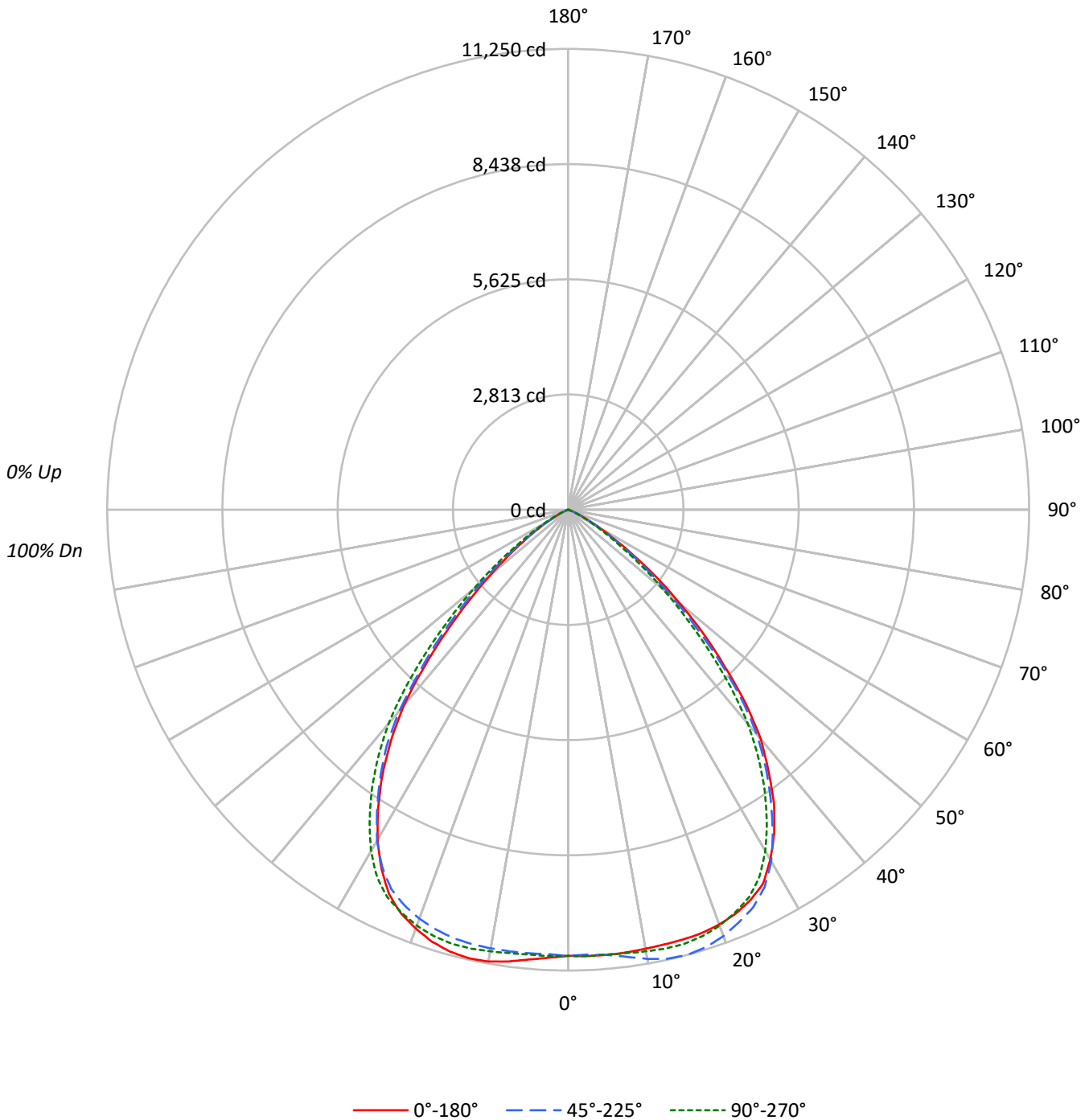
Input Watts (W): 177.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	109	106	103	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	84	82					82			
3	98	90	84	79	96	89	83	79	86	81	78	84	80	76	81	78	75	73					73			
4	92	82	76	71	90	81	75	70	79	74	69	77	72	68	75	71	68	66					66			
5	86	75	68	63	84	74	68	63	72	67	62	71	66	62	69	65	61	59					59			
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53					53			
7	75	64	56	51	73	63	56	51	62	55	51	60	55	50	59	54	50	48					48			
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44					44			
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37					37			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	335860	335860	335860
5°	337647	337412	341142
10°	340769	342810	350663
15°	346737	350204	356375
20°	353638	354566	356988
25°	357947	355253	352150
30°	351210	342626	331107
35°	329496	314822	297619
40°	294345	274415	251253
45°	234744	211308	183137
50°	170054	145156	118229
55°	105475	85803	67825
60°	54235	42653	34080
65°	23130	17351	13309
70°	7339	3624	2353
75°	1942	1168	1168
80°	1545	959	764
85°	1168	389	389



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1044.3	5.3
10°-20°	3108.3	15.8
20°-30°	4777.7	24.4
30°-40°	5164.7	26.3
40°-50°	3716.4	18.9
50°-60°	1499.7	7.6
60°-70°	288.4	1.5
70°-80°	17.1	0.1
80°-90°	2.4	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°	8930.3	45.5
0°-40°	14095.0	71.8
0°-60°	19311.1	98.4
0°-90°	19619.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19619.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	10892	10892	10892	10892	10892	
5°	10908	10911	10900	10869	11021	###
15°	10861	11250	10970	10826	11163	3074
25°	10520	10701	10441	10216	10350	4827
35°	8753	8614	8363	8002	7906	5420
45°	5383	5223	4846	4448	4200	4158
55°	1962	1814	1596	1379	1262	1829
65°	317	324	238	186	182	371
75°	16	13	10	10	10	27
85°	3	2	1	1	1	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°	10891.7	10891.7	10891.7	10891.7	10891.7	10891.7	10891.7	10891.7	10891.7
2.5°	10908.0	10892.8	10871.1	10870.0	10904.8	10885.2	10861.3	10886.3	10948.2
5°	10908.0	10910.2	10911.3	10901.5	10900.4	10867.8	10868.9	10936.2	11020.9
7.5°	10900.4	10942.8	11009.0	10993.8	10917.8	10846.1	10875.4	11011.2	11124.1
10°	10883.0	10981.8	11133.8	11111.0	10948.2	10826.6	10873.3	11062.2	11199.0
12.5°	10867.8	11003.6	11228.3	11201.2	10973.2	10813.6	10860.2	11068.7	11216.4
15°	10861.3	11007.9	11250.0	11216.4	10969.9	10787.5	10825.5	11020.9	11163.2
17.5°	10837.4	10974.2	11195.7	11154.5	10913.4	10726.7	10743.0	10921.0	11055.7
20°	10776.6	10893.9	11075.2	11018.8	10804.9	10617.0	10622.5	10757.1	10878.7
22.5°	10673.5	10765.8	10897.2	10842.9	10643.1	10472.6	10449.8	10562.8	10664.8
25°	10520.4	10595.3	10700.6	10642.0	10441.2	10267.5	10216.4	10288.1	10350.0
27.5°	10295.7	10321.7	10381.4	10291.3	10105.7	9935.2	9828.8	9839.7	9872.3
30°	9863.6	9905.9	9911.3	9808.2	9622.5	9424.9	9327.2	9273.0	9299.0
32.5°	9355.5	9343.5	9289.2	9164.4	9018.9	8861.5	8676.9	8615.0	8629.1
35°	8752.9	8724.7	8613.9	8494.5	8363.1	8169.9	8001.6	7910.4	7906.1
37.5°	8019.0	7981.0	7908.2	7743.2	7622.7	7459.8	7276.4	7175.4	7099.4
40°	7312.2	7252.5	7166.7	6969.1	6817.1	6590.2	6402.4	6262.3	6241.7
42.5°	6400.2	6370.9	6248.2	6049.5	5859.5	5591.3	5373.1	5255.9	5195.1
45°	5382.9	5382.9	5223.3	5048.5	4845.5	4645.7	4448.1	4273.3	4199.5
47.5°	4472.0	4359.1	4208.2	4021.4	3872.7	3731.5	3522.0	3307.0	3257.1
50°	3544.8	3473.1	3295.1	3117.0	3025.8	2891.2	2726.2	2517.7	2464.5
52.5°	2739.2	2626.3	2472.1	2339.7	2253.9	2148.6	1969.5	1827.2	1800.1
55°	1961.9	1904.3	1814.2	1705.6	1596.0	1485.2	1378.8	1297.4	1261.6
57.5°	1344.1	1324.6	1249.6	1185.6	1079.2	981.5	883.8	857.7	859.9
60°	879.4	878.3	841.4	783.9	691.6	602.6	557.0	543.9	552.6
62.5°	532.0	541.8	532.0	498.3	427.8	359.4	326.8	333.3	327.9
65°	317.0	326.8	323.5	280.1	237.8	208.5	185.7	177.0	182.4
67.5°	184.6	179.1	165.0	144.4	118.3	97.7	82.5	74.9	76.0
70°	81.4	77.1	69.5	53.2	40.2	32.6	27.1	25.0	26.1
72.5°	30.4	29.3	25.0	20.6	17.4	14.1	13.0	13.0	13.0
75°	16.3	15.2	13.0	10.9	9.8	9.8	9.8	9.8	9.8
77.5°	11.9	10.9	9.8	8.7	7.6	6.5	6.5	6.5	6.5
80°	8.7	7.6	6.5	5.4	5.4	4.3	4.3	4.3	4.3
82.5°	5.4	5.4	4.3	3.3	3.3	2.2	2.2	2.2	2.2
85°	3.3	3.3	2.2	2.2	1.1	1.1	1.1	1.1	1.1
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)