

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: P247466

Luminaire Tested: **LD8B80D010 ER8B80950 8LBS0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247466  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-85)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B80D010 ER8B80950 8LBS0WH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 5000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8605.0 lumens  
Efficiency: N/A  
Efficacy: 115.7 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.24  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

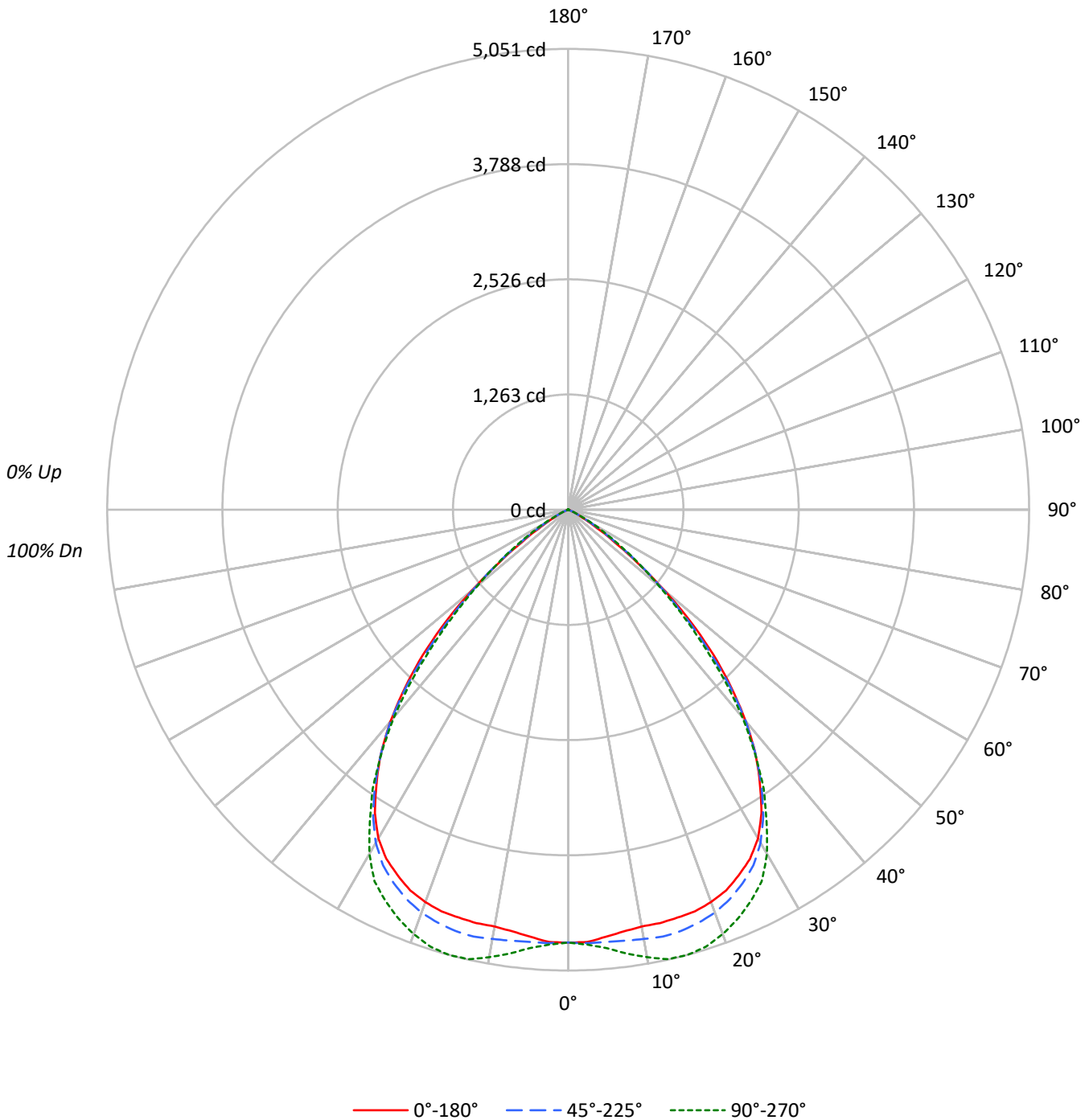
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	98	93	89	94	91	87	91	88	85	88	86	84	82					82			
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73					73			
4	92	83	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	73	67	62	71	66	62	69	65	61	59					59			
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54					54			
7	75	64	56	51	73	63	56	51	62	55	51	60	55	51	59	54	50	49					49			
8	70	59	52	47	69	58	51	47	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°	45°	90°
0°	146297	146297	146297
5°	145484	147224	149279
10°	145231	149593	155943
15°	147777	152604	161258
20°	150176	154202	162433
25°	150438	153765	161043
30°	148145	150082	155071
35°	137876	138779	140514
40°	121861	121712	119522
45°	98160	94501	90838
50°	65910	64188	62019
55°	33461	36337	38568
60°	13704	16775	19563
65°	5115	5450	6392
70°	334	334	252
75°	655	1096	1430
80°	160	0	0
85°	637	0	637



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	455.6	5.3
10°-20°	1357.7	15.8
20°-30°	2089.2	24.3
30°-40°	2288.3	26.6
40°-50°	1663.8	19.3
50°-60°	640.0	7.4
60°-70°	100.2	1.2
70°-80°	7.2	0.1
80°-90°	2.9	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°	3902.5	45.4
0°-40°	6190.8	71.9
0°-60°	8494.7	98.7
0°-90°	8605.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8605.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4744	4744	4744	4744	4744	
5°	4700	4724	4756	4801	4823	447
15°	4629	4665	4780	4957	5051	1310
25°	4422	4448	4519	4653	4733	2034
35°	3663	3663	3687	3710	3733	2274
45°	2251	2228	2167	2112	2083	1711
55°	622	639	676	698	717	608
65°	70	73	75	85	88	86
75°	6	12	9	12	12	7
85°	2	0	0	0	2	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4744.3	4744.3	4744.3	4744.3	4744.3
2.5°	4743.3	4750.7	4755.3	4765.5	4770.1
5°	4700.0	4724.0	4756.2	4801.4	4822.6
7.5°	4662.2	4695.4	4764.5	4862.3	4905.6
10°	4638.2	4674.2	4777.5	4910.2	4980.3
12.5°	4641.0	4680.6	4792.2	4951.7	5045.8
15°	4629.0	4665.0	4780.2	4957.3	5051.3
17.5°	4615.2	4644.7	4747.0	4920.4	5021.8
20°	4576.4	4601.3	4699.1	4855.8	4949.9
22.5°	4518.3	4541.4	4622.5	4768.2	4854.9
25°	4421.5	4448.3	4519.3	4653.0	4733.2
27.5°	4313.6	4329.3	4394.8	4516.5	4593.0
30°	4160.6	4166.1	4215.0	4309.0	4355.1
32.5°	3942.0	3941.1	3978.0	4025.0	4042.5
35°	3662.6	3662.6	3686.6	3709.6	3732.7
37.5°	3372.2	3368.5	3371.2	3376.8	3357.4
40°	3027.3	3019.9	3023.6	2990.4	2969.2
42.5°	2649.2	2655.7	2618.8	2559.8	2537.6
45°	2250.9	2227.8	2167.0	2111.6	2083.0
47.5°	1827.6	1791.7	1733.6	1676.4	1671.8
50°	1373.9	1375.8	1338.0	1305.7	1292.8
52.5°	953.5	963.6	983.0	986.7	991.3
55°	622.4	639.0	675.9	698.0	717.4
57.5°	380.8	411.3	442.6	484.1	487.8
60°	222.2	237.0	272.0	303.4	317.2
62.5°	125.4	139.2	146.6	165.1	169.7
65°	70.1	72.8	74.7	84.8	87.6
67.5°	42.4	44.3	46.1	45.2	47.0
70°	3.7	8.3	3.7	4.6	2.8
72.5°	15.7	10.1	11.1	8.3	5.5
75°	5.5	12.0	9.2	12.0	12.0
77.5°	3.7	2.8	4.6	5.5	4.6
80°	0.9	0.0	0.0	0.0	0.0
82.5°	8.3	7.4	4.6	7.4	2.8
85°	1.8	0.0	0.0	0.0	1.8
87.5°	5.5	2.8	2.8	6.5	1.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)