

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: P247352

Luminaire Tested: **LD8B100D010 ER8B100850 8LBSOWMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247352  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-84)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B100D010 ER8B100850 8LBS0WMH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 5000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11802.0 lumens  
Efficiency: N/A  
Efficacy: 111.0 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.2 / 1.23  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

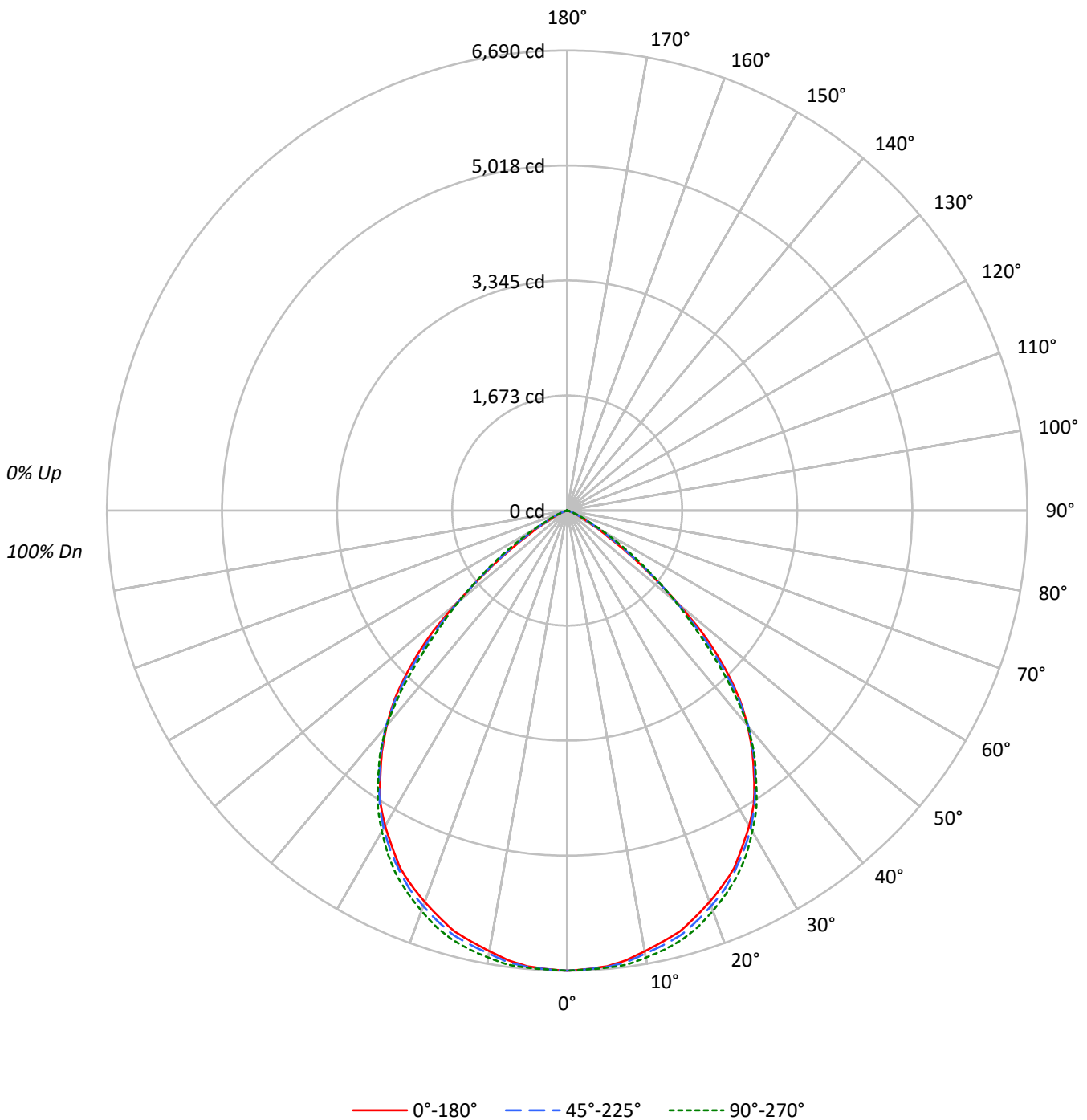
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	206283	206283	206283
5°	205848	206173	206538
10°	203653	204846	206659
15°	202210	203976	206163
20°	198700	200774	203235
25°	195271	196523	199255
30°	188513	190012	191792
35°	178388	179476	180417
40°	164260	165053	164631
45°	141616	137883	132371
50°	101098	99582	98383
55°	58030	61498	66594
60°	27518	32230	37263
65°	12966	15658	17964
70°	6050	6762	7718
75°	2824	4075	4706
80°	2344	2095	3267
85°	920	2335	1380



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	632.1	5.4
10°-20°	1798.6	15.2
20°-30°	2657.1	22.5
30°-40°	2969.2	25.2
40°-50°	2397.1	20.3
50°-60°	1066.2	9.0
60°-70°	240.2	2.0
70°-80°	37.1	0.3
80°-90°	4.4	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°	5087.8	43.1
0°-40°	8057.0	68.3
0°-60°	11520.3	97.6
0°-90°	11802.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11802.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6690	6690	6690	6690	6690	
5°	6650	6649	6661	6662	6672	630
15°	6334	6338	6389	6437	6458	1781
25°	5739	5739	5776	5823	5856	2631
35°	4739	4736	4768	4773	4793	2954
45°	3247	3222	3162	3050	3035	2455
55°	1079	1095	1144	1203	1239	1015
65°	178	200	215	233	246	207
75°	24	33	34	33	40	31
85°	3	4	7	14	4	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6689.6	6689.6	6689.6	6689.6	6689.6
2.5°	6672.4	6668.5	6675.1	6671.1	6677.7
5°	6650.1	6648.7	6660.6	6661.9	6672.4
7.5°	6592.1	6593.5	6618.5	6636.9	6658.0
10°	6504.0	6509.2	6542.1	6582.9	6600.0
12.5°	6419.7	6426.3	6468.4	6525.0	6538.2
15°	6334.1	6338.1	6389.4	6436.8	6457.9
17.5°	6194.6	6220.9	6260.4	6314.4	6342.0
20°	6055.1	6073.5	6118.3	6177.5	6193.3
22.5°	5902.4	5922.1	5966.9	6015.6	6032.7
25°	5739.2	5739.2	5776.0	5823.4	5856.3
27.5°	5511.4	5539.1	5565.4	5607.5	5640.4
30°	5294.3	5304.8	5336.4	5370.6	5386.4
32.5°	5053.4	5054.7	5069.2	5107.3	5121.8
35°	4738.8	4736.1	4767.7	4773.0	4792.7
37.5°	4424.2	4437.3	4449.2	4467.6	4468.9
40°	4080.6	4087.2	4100.3	4080.6	4089.8
42.5°	3706.8	3697.6	3672.5	3613.3	3588.3
45°	3247.4	3222.4	3161.8	3049.9	3035.4
47.5°	2740.6	2678.7	2605.0	2522.1	2506.3
50°	2107.4	2112.7	2075.8	2048.2	2050.8
52.5°	1536.1	1554.6	1563.8	1590.1	1604.6
55°	1079.4	1095.2	1143.9	1203.1	1238.7
57.5°	699.0	729.2	792.4	859.6	884.6
60°	446.2	466.0	522.6	571.3	604.2
62.5°	292.2	298.8	330.4	375.2	376.5
65°	177.7	200.1	214.6	233.0	246.2
67.5°	115.8	115.8	129.0	146.1	150.1
70°	67.1	68.4	75.0	81.6	85.6
72.5°	36.9	40.8	44.8	51.3	57.9
75°	23.7	32.9	34.2	32.9	39.5
77.5°	15.8	15.8	13.2	22.4	23.7
80°	13.2	9.2	11.8	17.1	18.4
82.5°	0.0	1.3	1.3	2.6	0.0
85°	2.6	3.9	6.6	14.5	3.9
87.5°	0.0	3.9	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)