

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: P247529

Luminaire Tested: **LD8B120D010 ER8B120827 8LBS0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247529  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-86)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B120D010 ER8B120827 8LBS0GPH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 2700 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11551.0 lumens  
Efficiency: N/A  
Efficacy: 97.6 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.19 / 1.23  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

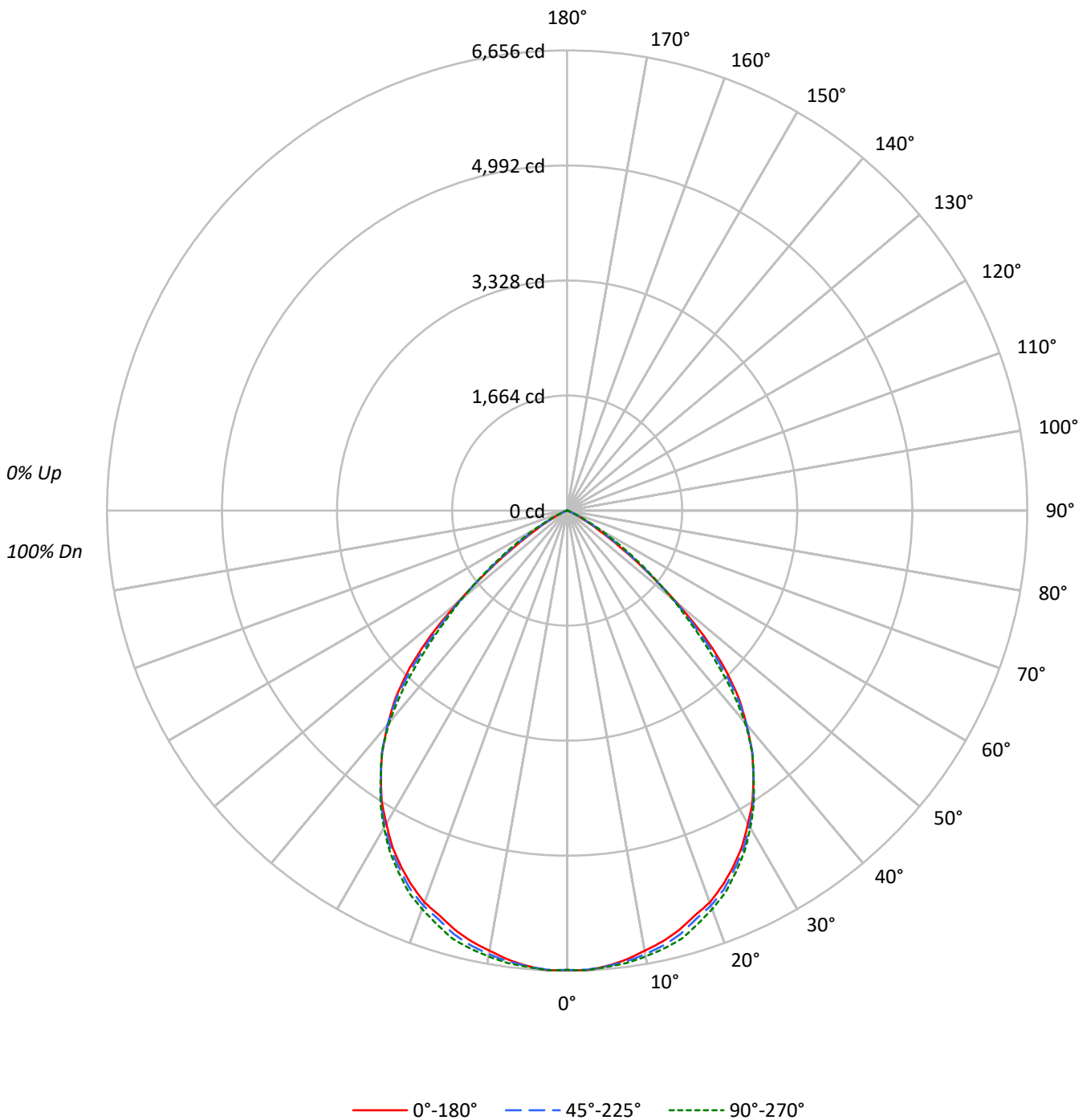
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	102	103	100	98	99	97	95	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73					73			
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65					65			
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48					48			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43					43			
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39					39			
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36					36			

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

	0°	45°	90°
0°	204907	204907	204907
5°	204665	204749	205049
10°	202445	204001	205040
15°	200356	202431	204637
20°	197922	199511	201233
25°	193362	194774	196374
30°	186266	187694	188676
35°	176736	176894	176947
40°	162397	162674	161004
45°	140491	135550	129523
50°	98527	96536	95274
55°	53498	57955	61745
60°	23608	28807	32643
65°	9077	11397	13615
70°	4607	4111	5355
75°	1477	2800	2466
80°	1225	249	1474
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	628.6	5.4
10°-20°	1785.1	15.5
20°-30°	2632.6	22.8
30°-40°	2930.2	25.4
40°-50°	2358.2	20.4
50°-60°	1002.8	8.7
60°-70°	188.0	1.6
70°-80°	22.8	0.2
80°-90°	2.8	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°	5046.2	43.7
0°-40°	7976.4	69.1
0°-60°	11337.4	98.2
0°-90°	11551.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11551.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6645	6645	6645	6645	6645	
5°	6612	6613	6615	6626	6624	626
15°	6276	6311	6341	6389	6410	1768
25°	5683	5704	5725	5758	5772	2612
35°	4695	4696	4699	4700	4700	2924
45°	3222	3195	3108	3014	2970	2422
55°	995	1017	1078	1121	1148	948
65°	124	138	156	167	187	161
75°	12	15	24	22	21	20
85°	0	0	0	0	0	3
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6645.0	6645.0	6645.0	6645.0	6645.0
2.5°	6656.1	6660.2	6646.4	6649.2	6653.3
5°	6611.9	6613.3	6614.6	6625.7	6624.3
7.5°	6549.7	6559.4	6575.9	6596.7	6602.2
10°	6465.4	6490.3	6515.1	6540.0	6548.3
12.5°	6382.4	6397.7	6441.9	6466.8	6487.5
15°	6276.0	6310.6	6341.0	6389.4	6410.1
17.5°	6140.6	6165.5	6194.5	6242.9	6271.9
20°	6031.4	6038.3	6079.8	6122.6	6132.3
22.5°	5869.7	5884.9	5927.7	5956.8	5981.6
25°	5683.1	5703.8	5724.6	5757.7	5771.6
27.5°	5478.6	5491.0	5520.0	5543.5	5556.0
30°	5231.2	5258.8	5271.3	5282.3	5298.9
32.5°	4990.7	4999.0	5010.0	5017.0	5025.2
35°	4694.9	4696.3	4699.1	4700.5	4700.5
37.5°	4392.3	4401.9	4399.2	4390.9	4395.0
40°	4034.3	4050.9	4041.2	4016.3	3999.7
42.5°	3673.6	3665.3	3632.1	3557.5	3522.9
45°	3221.6	3195.4	3108.3	3014.3	2970.1
47.5°	2679.9	2621.8	2548.6	2475.3	2446.3
50°	2053.8	2045.5	2012.3	1983.3	1986.0
52.5°	1471.9	1492.6	1499.6	1527.2	1541.0
55°	995.1	1017.2	1078.0	1120.9	1148.5
57.5°	605.4	648.2	713.2	783.6	819.6
60°	382.8	407.7	467.1	512.8	529.3
62.5°	239.1	240.5	269.5	305.4	320.6
65°	124.4	138.2	156.2	167.2	186.6
67.5°	77.4	77.4	76.0	92.6	103.7
70°	51.1	44.2	45.6	55.3	59.4
72.5°	18.0	30.4	27.6	27.6	19.3
75°	12.4	15.2	23.5	22.1	20.7
77.5°	16.6	15.2	11.1	9.7	19.3
80°	6.9	5.5	1.4	8.3	8.3
82.5°	6.9	2.8	8.3	11.1	6.9
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	1.4	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)