

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: P247532

Luminaire Tested: **LSR8B100D010 EC8B100830 8LBSOGPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247532  
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: LSR8B100D010 EC8B100830 8LBS0GPH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10443.9 lumens  
Efficiency: N/A  
Efficacy: 98.2 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

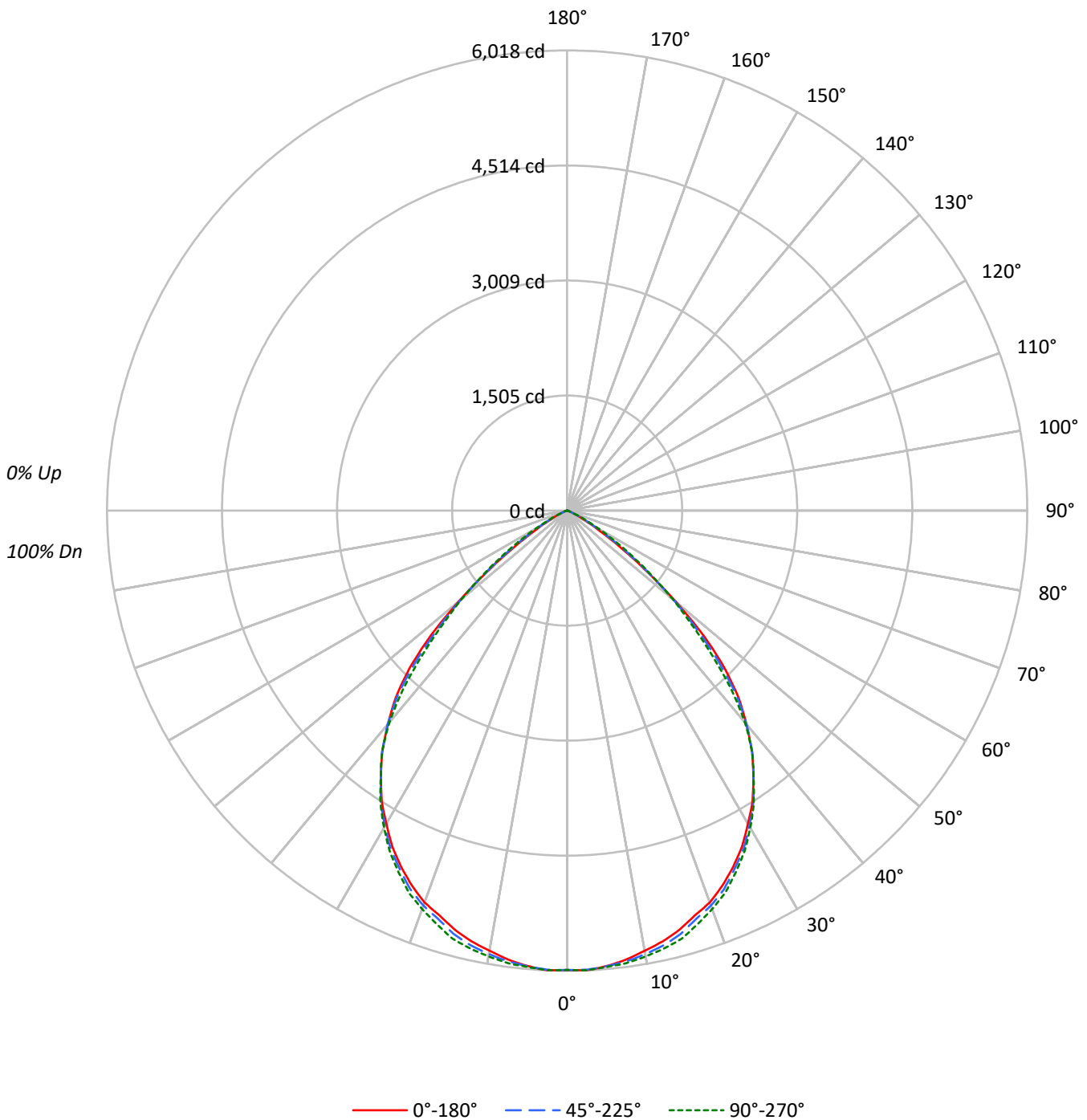
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	185271	185271	185271
5°	185050	185127	185400
10°	183044	184450	185389
15°	181157	183030	185026
20°	178955	180389	181948
25°	174833	176109	177551
30°	168413	169705	170595
35°	159800	159939	159988
40°	146834	147084	145574
45°	127029	122559	117108
50°	89081	87286	86145
55°	48369	52401	55826
60°	21345	26051	29517
65°	8209	10303	12309
70°	4165	3715	4842
75°	1334	2526	2228
80°	1101	213	1332
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	568.3	5.4
10°-20°	1614.0	15.5
20°-30°	2380.3	22.8
30°-40°	2649.4	25.4
40°-50°	2132.2	20.4
50°-60°	906.7	8.7
60°-70°	170.0	1.6
70°-80°	20.6	0.2
80°-90°	2.6	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°	4562.6	43.7
0°-40°	7212.0	69.1
0°-60°	10250.8	98.2
0°-90°	10443.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10443.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6008	6008	6008	6008	6008	
5°	5978	5980	5981	5991	5990	566
15°	5675	5706	5733	5777	5796	1599
25°	5138	5157	5176	5206	5218	2361
35°	4245	4246	4249	4250	4250	2644
45°	2913	2889	2810	2725	2685	2190
55°	900	920	975	1013	1038	857
65°	112	125	141	151	169	146
75°	11	14	21	20	19	18
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°	6008.2	6008.2	6008.2	6008.2	6008.2
2.5°	6018.2	6022.0	6009.5	6012.0	6015.7
5°	5978.2	5979.5	5980.7	5990.7	5989.5
7.5°	5922.0	5930.7	5945.7	5964.5	5969.5
10°	5845.8	5868.3	5890.7	5913.2	5920.7
12.5°	5770.8	5784.5	5824.5	5847.0	5865.8
15°	5674.6	5705.8	5733.3	5777.0	5795.8
17.5°	5552.1	5574.6	5600.8	5644.6	5670.8
20°	5453.4	5459.6	5497.1	5535.9	5544.6
22.5°	5307.2	5320.9	5359.7	5385.9	5408.4
25°	5138.5	5157.2	5176.0	5205.9	5218.4
27.5°	4953.5	4964.8	4991.0	5012.3	5023.5
30°	4729.8	4754.8	4766.1	4776.1	4791.1
32.5°	4512.4	4519.9	4529.9	4536.1	4543.6
35°	4245.0	4246.2	4248.7	4250.0	4250.0
37.5°	3971.3	3980.1	3977.6	3970.1	3973.8
40°	3647.7	3662.7	3653.9	3631.4	3616.4
42.5°	3321.5	3314.0	3284.0	3216.5	3185.3
45°	2912.9	2889.1	2810.4	2725.4	2685.4
47.5°	2423.0	2370.5	2304.3	2238.1	2211.8
50°	1856.9	1849.4	1819.5	1793.2	1795.7
52.5°	1330.9	1349.6	1355.8	1380.8	1393.3
55°	899.7	919.7	974.7	1013.4	1038.4
57.5°	547.3	586.1	644.8	708.5	741.0
60°	346.1	368.6	422.4	463.6	478.6
62.5°	216.2	217.4	243.7	276.2	289.9
65°	112.5	125.0	141.2	151.2	168.7
67.5°	70.0	70.0	68.7	83.7	93.7
70°	46.2	40.0	41.2	50.0	53.7
72.5°	16.2	27.5	25.0	25.0	17.5
75°	11.2	13.7	21.2	20.0	18.7
77.5°	15.0	13.7	10.0	8.7	17.5
80°	6.2	5.0	1.2	7.5	7.5
82.5°	6.2	2.5	7.5	10.0	6.2
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	1.2	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)