

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: P247337

Luminaire Tested: **LSR8B120D010 EC8B120827 8LBS0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247337  
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: LSR8B120D010 EC8B120827 8LBS0WMH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 2700 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12391.0 lumens  
Efficiency: N/A  
Efficacy: 104.7 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

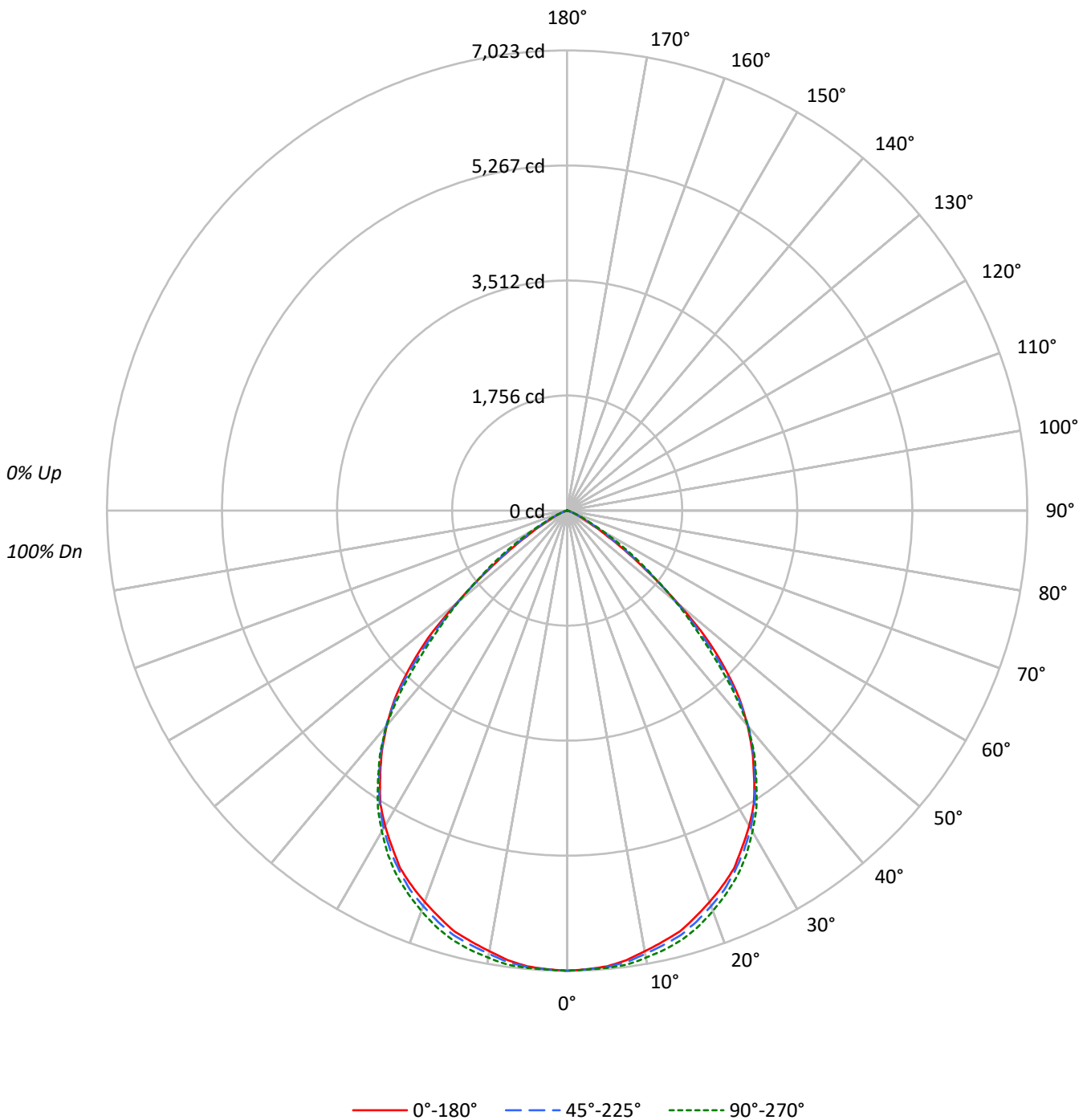
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	216576	216576	216576
5°	216118	216462	216846
10°	213814	215070	216973
15°	212305	214156	216452
20°	208617	210792	213378
25°	205016	206332	209201
30°	197920	199494	201363
35°	187291	188436	189422
40°	172460	173293	172846
45°	148681	144765	138978
50°	106145	104552	103295
55°	60928	64568	69917
60°	28894	33840	39119
65°	13615	16439	18854
70°	6356	7105	8096
75°	2967	4277	4944
80°	2451	2202	3427
85°	991	2441	1451



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	663.6	5.4
10°-20°	1888.4	15.2
20°-30°	2789.8	22.5
30°-40°	3117.4	25.2
40°-50°	2516.7	20.3
50°-60°	1119.4	9.0
60°-70°	252.2	2.0
70°-80°	39.0	0.3
80°-90°	4.6	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°	5341.7	43.1
0°-40°	8459.1	68.3
0°-60°	12095.3	97.6
0°-90°	12391.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12391.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7023	7023	7023	7023	7023	
5°	6982	6981	6993	6994	7005	661
15°	6650	6654	6708	6758	6780	1870
25°	6026	6026	6064	6114	6149	2762
35°	4975	4972	5006	5011	5032	3101
45°	3409	3383	3320	3202	3187	2578
55°	1133	1150	1201	1263	1300	1066
65°	187	210	225	245	258	217
75°	25	35	36	35	42	32
85°	3	4	7	15	4	3
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7023.4	7023.4	7023.4	7023.4	7023.4
2.5°	7005.4	7001.3	7008.2	7004.1	7011.0
5°	6981.9	6980.6	6993.0	6994.4	7005.4
7.5°	6921.1	6922.5	6948.8	6968.1	6990.2
10°	6828.5	6834.1	6868.6	6911.5	6929.4
12.5°	6740.1	6747.0	6791.2	6850.7	6864.5
15°	6650.3	6654.4	6708.3	6758.1	6780.2
17.5°	6503.8	6531.4	6572.9	6629.5	6658.6
20°	6357.3	6376.6	6423.6	6485.8	6502.4
22.5°	6197.0	6217.7	6264.7	6315.8	6333.8
25°	6025.6	6025.6	6064.3	6114.0	6148.6
27.5°	5786.5	5815.5	5843.2	5887.4	5921.9
30°	5558.5	5569.5	5602.7	5638.6	5655.2
32.5°	5305.6	5306.9	5322.1	5362.2	5377.4
35°	4975.3	4972.5	5005.7	5011.2	5031.9
37.5°	4645.0	4658.8	4671.2	4690.6	4691.9
40°	4284.3	4291.2	4305.0	4284.3	4293.9
42.5°	3891.8	3882.1	3855.8	3793.6	3767.4
45°	3409.4	3383.2	3319.6	3202.1	3186.9
47.5°	2877.4	2812.4	2735.0	2647.9	2631.4
50°	2212.6	2218.1	2179.4	2150.4	2153.2
52.5°	1612.8	1632.2	1641.8	1669.5	1684.7
55°	1133.3	1149.8	1201.0	1263.2	1300.5
57.5°	733.9	765.6	832.0	902.5	928.7
60°	468.5	489.2	548.7	599.8	634.3
62.5°	306.8	313.7	346.9	393.9	395.3
65°	186.6	210.1	225.3	244.6	258.4
67.5°	121.6	121.6	135.4	153.4	157.5
70°	70.5	71.9	78.8	85.7	89.8
72.5°	38.7	42.8	47.0	53.9	60.8
75°	24.9	34.6	35.9	34.6	41.5
77.5°	16.6	16.6	13.8	23.5	24.9
80°	13.8	9.7	12.4	18.0	19.3
82.5°	0.0	1.4	1.4	2.8	0.0
85°	2.8	4.1	6.9	15.2	4.1
87.5°	0.0	4.1	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)