

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: P247537

Luminaire Tested: **LSR8B120D010 EC8B120835 8LBS0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247537
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: LSR8B120D010 EC8B120835 8LBS0GPH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12312.0 lumens
Efficiency: N/A
Efficacy: 104.1 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

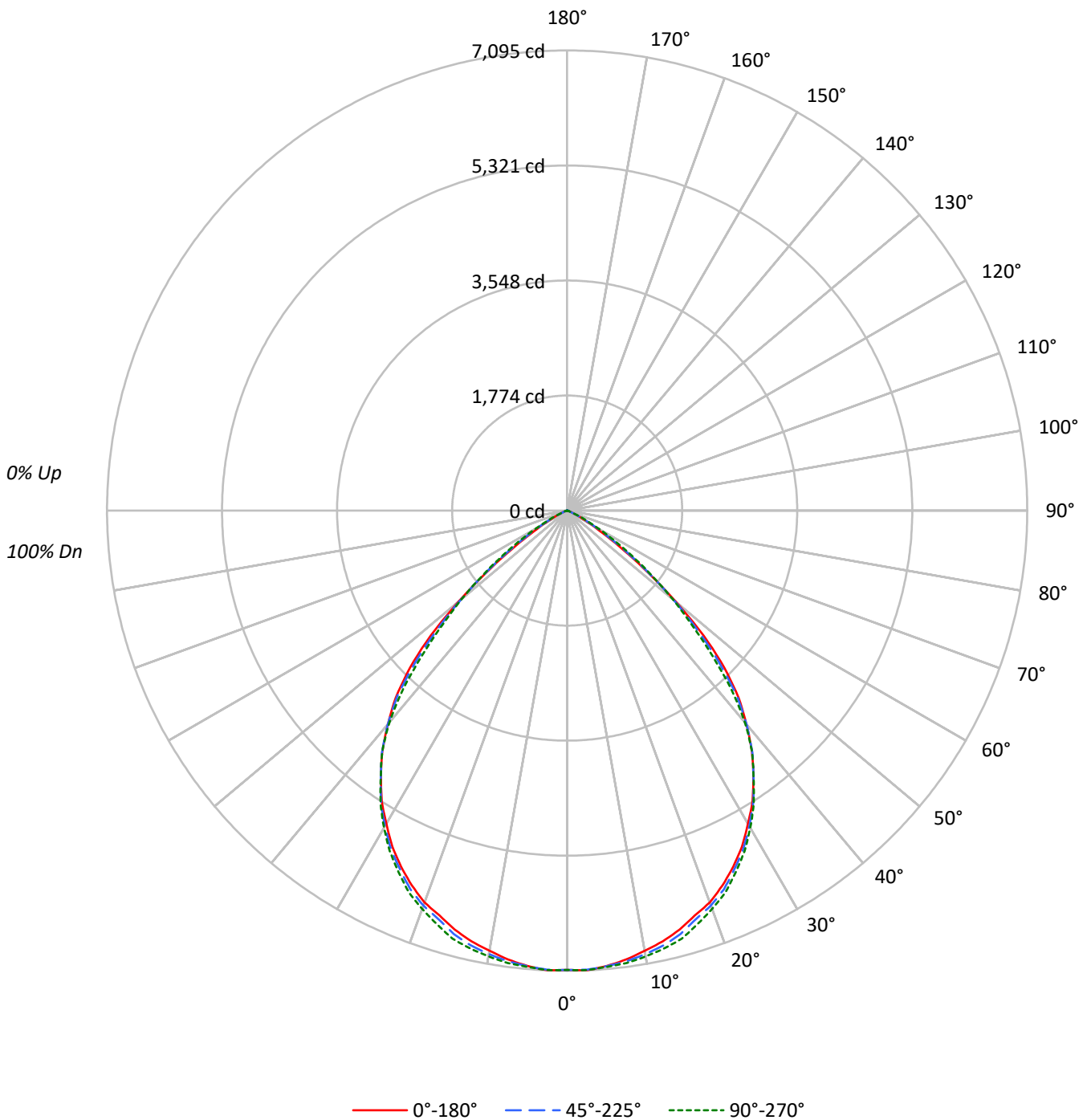
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	218407	218407	218407
5°	218149	218239	218558
10°	215780	217443	218548
15°	213556	215765	218118
20°	210963	212653	214491
25°	206101	207605	209310
30°	198536	200056	201107
35°	188379	188548	188601
40°	173096	173390	171615
45°	149749	144481	138058
50°	105017	102897	101554
55°	57025	61772	65815
60°	25169	30707	34796
65°	9675	12149	14513
70°	4914	4382	5707
75°	1585	2979	2633
80°	1314	266	1563
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	670.0	5.4
10°-20°	1902.7	15.5
20°-30°	2806.0	22.8
30°-40°	3123.2	25.4
40°-50°	2513.5	20.4
50°-60°	1068.8	8.7
60°-70°	200.4	1.6
70°-80°	24.3	0.2
80°-90°	3.0	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°	5378.7	43.7
0°-40°	8501.9	69.1
0°-60°	12084.3	98.2
0°-90°	12312.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12312.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7083	7083	7083	7083	7083	
5°	7048	7049	7050	7062	7061	668
15°	6690	6726	6759	6810	6832	1885
25°	6058	6080	6102	6137	6152	2784
35°	5004	5006	5009	5010	5010	3116
45°	3434	3406	3313	3213	3166	2582
55°	1061	1084	1149	1195	1224	1010
65°	133	147	166	178	199	172
75°	13	16	25	24	22	21
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°	7082.8	7082.8	7082.8	7082.8	7082.8
2.5°	7094.6	7099.0	7084.3	7087.3	7091.7
5°	7047.5	7048.9	7050.4	7062.2	7060.7
7.5°	6981.2	6991.5	7009.2	7031.3	7037.2
10°	6891.3	6917.8	6944.4	6970.9	6979.7
12.5°	6802.9	6819.1	6866.3	6892.8	6914.9
15°	6689.5	6726.3	6758.7	6810.3	6832.4
17.5°	6545.1	6571.7	6602.6	6654.1	6685.1
20°	6428.8	6436.1	6480.3	6526.0	6536.3
22.5°	6256.4	6272.6	6318.3	6349.2	6375.7
25°	6057.5	6079.6	6101.7	6137.1	6151.8
27.5°	5839.5	5852.8	5883.7	5908.7	5922.0
30°	5575.8	5605.3	5618.5	5630.3	5648.0
32.5°	5319.5	5328.3	5340.1	5347.5	5356.3
35°	5004.2	5005.7	5008.7	5010.1	5010.1
37.5°	4681.6	4691.9	4689.0	4680.1	4684.6
40°	4300.1	4317.8	4307.4	4280.9	4263.3
42.5°	3915.6	3906.8	3871.4	3791.8	3755.0
45°	3433.9	3405.9	3313.1	3212.9	3165.8
47.5°	2856.4	2794.5	2716.5	2638.4	2607.4
50°	2189.1	2180.2	2144.9	2113.9	2116.9
52.5°	1568.9	1591.0	1598.4	1627.8	1642.5
55°	1060.7	1084.2	1149.0	1194.7	1224.2
57.5°	645.2	690.9	760.1	835.3	873.6
60°	408.1	434.6	497.9	546.5	564.2
62.5°	254.9	256.3	287.3	325.6	341.8
65°	132.6	147.3	166.5	178.2	198.9
67.5°	82.5	82.5	81.0	98.7	110.5
70°	54.5	47.1	48.6	58.9	63.3
72.5°	19.2	32.4	29.5	29.5	20.6
75°	13.3	16.2	25.0	23.6	22.1
77.5°	17.7	16.2	11.8	10.3	20.6
80°	7.4	5.9	1.5	8.8	8.8
82.5°	7.4	2.9	8.8	11.8	7.4
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	1.5	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)