

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: P247241

Luminaire Tested: **LSR8B120D010 EC8B120827 8LBW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247241
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-59)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B120D010 EC8B120827 8LBW0WMH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 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: 11401.0 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.14 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

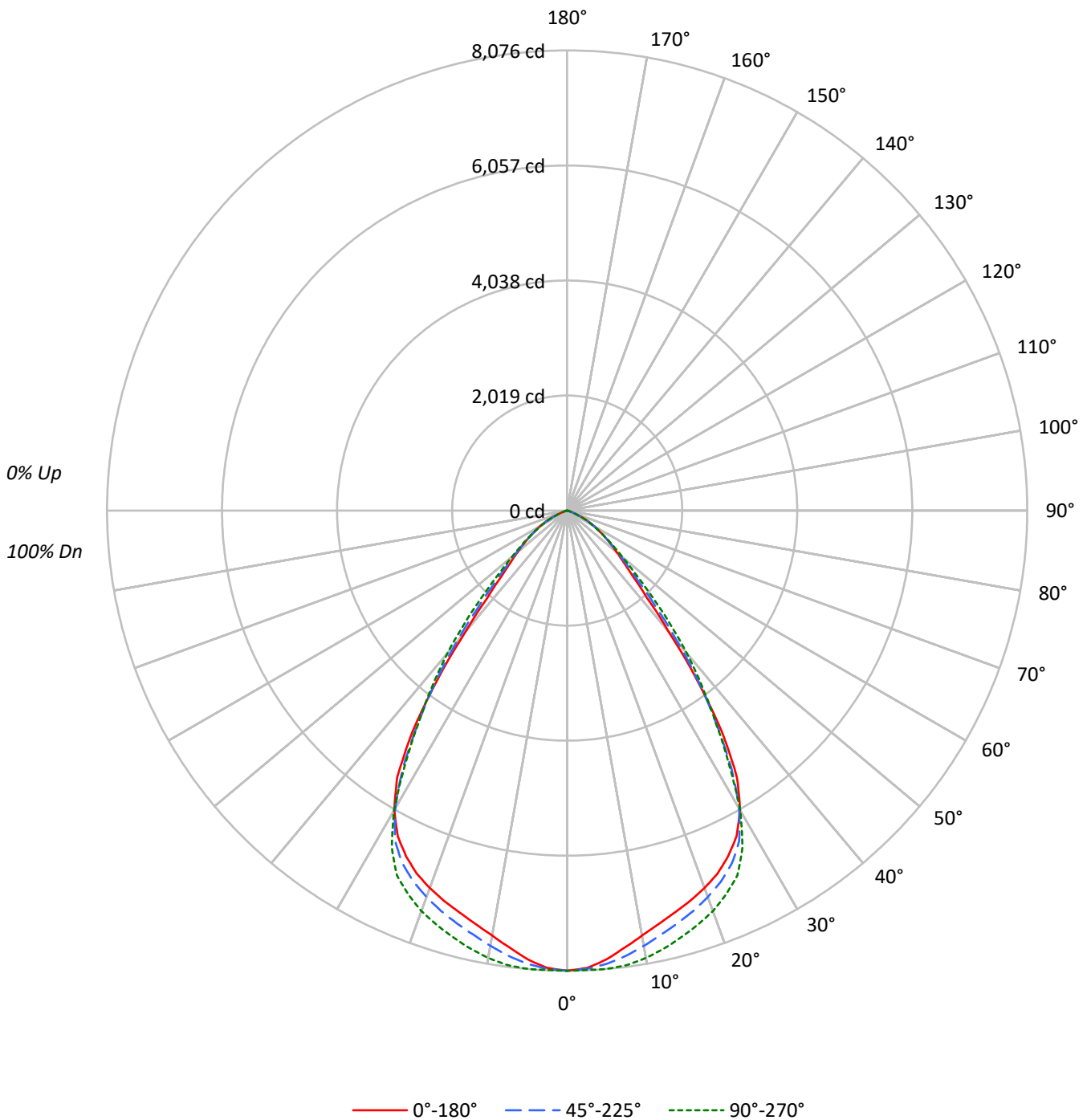
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91					91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	83					83			
3	99	91	85	81	97	90	84	80	87	83	79	85	81	78	82	79	76	75					75			
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	72	69	68					68			
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61					61			
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56					56			
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51					51			
8	72	61	54	50	71	61	54	49	59	54	49	58	53	49	57	52	49	47					47			
9	68	57	50	46	67	57	50	46	56	50	45	55	49	45	54	49	45	44					44			
10	65	53	47	42	63	53	47	42	52	46	42	51	46	42	50	45	42	40					40			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	249040	249040	249040
5°	244773	247125	249865
10°	237132	242887	249638
15°	233119	239297	247460
20°	231282	236861	245432
25°	227625	232657	240462
30°	215972	215086	216464
35°	178023	171729	171311
40°	111536	121494	131566
45°	70690	78588	88470
50°	54430	56550	60527
55°	43090	42945	44504
60°	33581	32896	32730
65°	22590	21678	21072
70°	10341	9467	8971
75°	4944	4444	4110
80°	2451	2202	2202
85°	1451	1451	991



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	755.3	6.6
10°-20°	2120.8	18.6
20°-30°	3123.5	27.4
30°-40°	2840.9	24.9
40°-50°	1470.6	12.9
50°-60°	736.8	6.5
60°-70°	300.1	2.6
70°-80°	47.8	0.4
80°-90°	5.1	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°	5999.6	52.6
0°-40°	8840.5	77.5
0°-60°	11047.9	96.9
0°-90°	11401.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11401.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8076	8076	8076	8076	8076	
5°	7908	7928	7984	8044	8072	744
15°	7302	7352	7496	7668	7752	2064
25°	6690	6736	6838	6994	7067	3063
35°	4729	4699	4562	4523	4551	2852
45°	1621	1678	1802	1942	2029	1335
55°	802	799	799	814	828	728
65°	310	308	297	293	289	312
75°	42	40	37	34	34	52
85°	4	4	4	3	3	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8076.2	8076.2	8076.2	8076.2	8076.2
2.5°	8033.4	8037.5	8048.6	8061.0	8070.7
5°	7907.6	7928.4	7983.6	8044.4	8072.1
7.5°	7736.3	7781.9	7882.8	7996.1	8045.8
10°	7573.2	7625.7	7757.0	7909.0	7972.6
12.5°	7429.5	7480.6	7622.9	7792.9	7871.7
15°	7302.3	7352.1	7495.8	7668.5	7751.5
17.5°	7182.1	7227.7	7364.5	7537.3	7621.6
20°	7048.0	7088.1	7218.0	7385.2	7479.2
22.5°	6896.0	6926.4	7048.0	7207.0	7289.9
25°	6690.1	6735.7	6838.0	6994.1	7067.4
27.5°	6438.6	6467.6	6538.1	6633.5	6663.9
30°	6065.5	6064.1	6040.6	6040.6	6079.3
32.5°	5547.2	5480.9	5368.9	5301.2	5295.7
35°	4729.1	4698.7	4561.9	4523.2	4550.8
37.5°	3731.3	3752.0	3786.6	3841.9	3891.6
40°	2770.8	2823.4	3018.2	3192.3	3268.4
42.5°	2067.4	2135.1	2334.1	2524.9	2617.4
45°	1621.0	1677.7	1802.1	1941.7	2028.7
47.5°	1340.5	1369.5	1435.9	1529.8	1574.1
50°	1134.6	1148.4	1178.8	1227.2	1261.7
52.5°	963.2	957.7	974.3	1006.1	1018.5
55°	801.5	798.8	798.8	814.0	827.8
57.5°	664.7	660.6	652.3	659.2	663.3
60°	544.5	540.3	533.4	532.1	530.7
62.5°	438.1	431.2	417.4	414.6	414.6
65°	309.6	308.2	297.1	293.0	288.8
67.5°	192.1	186.6	176.9	168.6	167.2
70°	114.7	113.3	105.0	99.5	99.5
72.5°	69.1	66.3	62.2	59.4	58.0
75°	41.5	40.1	37.3	34.5	34.5
77.5°	24.9	23.5	22.1	20.7	20.7
80°	13.8	13.8	12.4	12.4	12.4
82.5°	8.3	8.3	6.9	6.9	6.9
85°	4.1	4.1	4.1	2.8	2.8
87.5°	1.4	1.4	1.4	1.4	1.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)