

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: P247580

Luminaire Tested: **LSR8B100D010 EC8B100830 8LBW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247580
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-62)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B100D010 EC8B100830 8LBW0B
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6910.0 lumens
Efficiency: N/A
Efficacy: 65.0 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.07 / 1.01
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

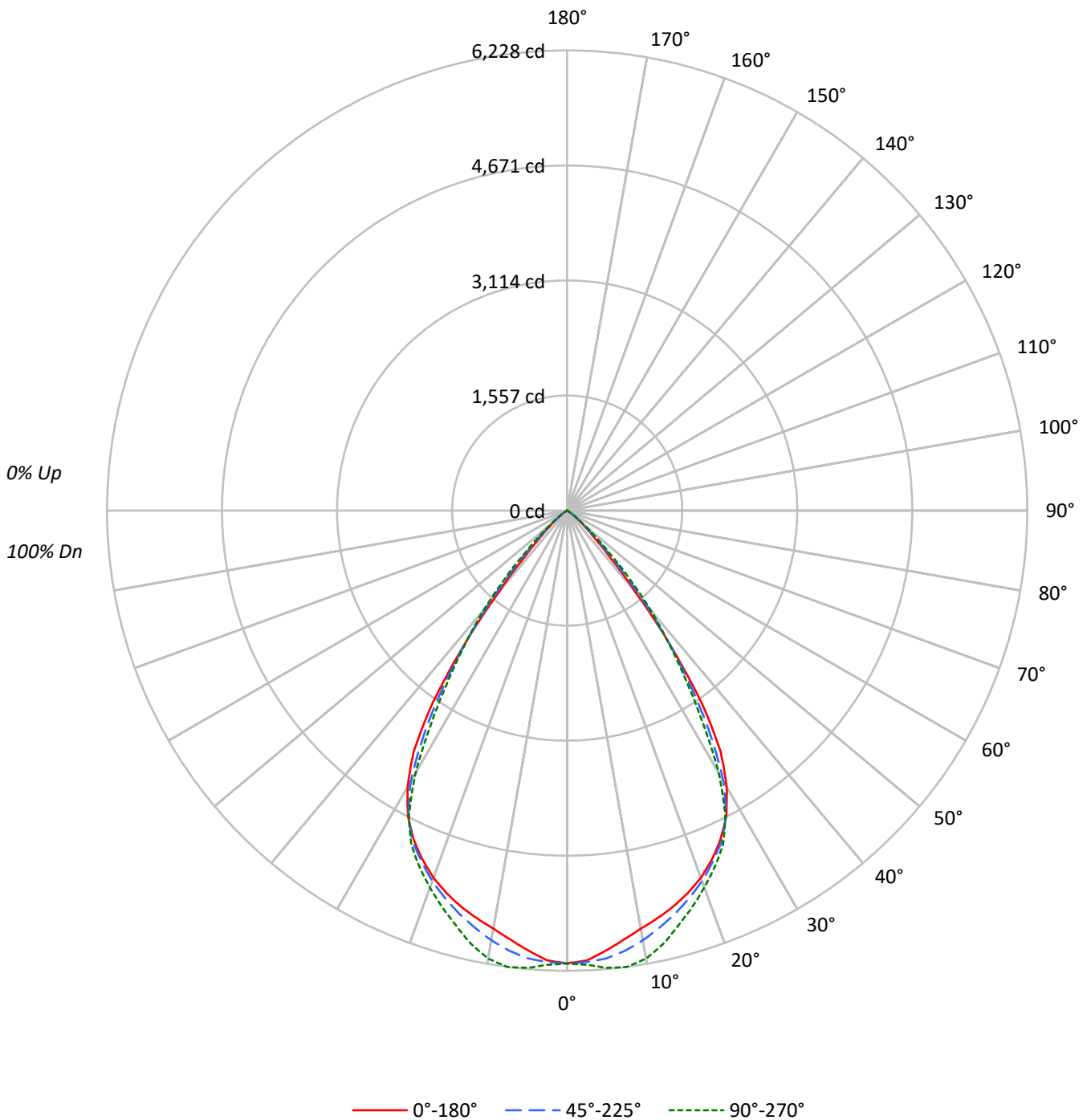
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100	100	100	100		
1	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93	93	93	93	93	93	93		
2	107	102	98	95	105	101	97	94	97	94	91	94	92	90	92	89	88	86	86	86	86	86	86	86		
3	102	95	90	86	100	93	89	85	91	87	84	88	85	82	86	83	81	79	79	79	79	79	79	79		
4	96	88	82	78	94	87	82	77	85	80	77	83	79	76	81	78	75	73	73	73	73	73	73	73		
5	91	82	76	71	89	81	75	71	79	74	70	78	73	70	76	72	69	68	68	68	68	68	68	68		
6	86	77	70	66	84	76	70	65	74	69	65	73	68	65	71	67	64	63	63	63	63	63	63	63		
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60	58	58	58	58	58	58	58		
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	55	54	54	54	54	54	54	54		
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50	50	50	50	50	50	50		
10	69	59	53	49	68	59	53	49	58	52	49	57	52	49	56	52	48	47	47	47	47	47	47	47		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	188996	188996	188996
5°	185115	188365	192312
10°	179900	184910	192772
15°	177153	180307	185610
20°	173531	175129	178164
25°	167126	168317	169804
30°	153764	150784	146336
35°	119148	111009	105460
40°	57893	65690	70368
45°	22398	28826	34931
50°	10492	11988	13725
55°	4365	4704	4839
60°	1462	1388	1307
65°	182	270	270
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	576.1	8.3
10°-20°	1594.3	23.1
20°-30°	2246.5	32.5
30°-40°	1817.5	26.3
40°-50°	577.0	8.4
50°-60°	92.3	1.3
60°-70°	6.2	0.1
70°-80°	0.0	0.0
80°-90°	0.0	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°	4417.0	63.9
0°-40°	6234.5	90.2
0°-60°	6903.8	99.9
0°-90°	6910.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6910.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6129	6129	6129	6129	6129	
5°	5980	6008	6085	6174	6213	563
15°	5549	5570	5648	5755	5814	1563
25°	4912	4921	4947	4974	4991	2243
35°	3165	3079	2949	2843	2802	1877
45°	514	555	661	755	801	479
55°	81	82	88	91	90	85
65°	2	4	4	4	4	6
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6129.0	6129.0	6129.0	6129.0	6129.0
2.5°	6094.0	6100.3	6115.3	6144.0	6152.8
5°	5980.3	6007.8	6085.3	6174.0	6212.8
7.5°	5857.9	5894.1	6007.8	6157.8	6227.7
10°	5745.4	5784.2	5905.4	6065.3	6156.5
12.5°	5650.5	5680.4	5779.2	5922.9	6007.8
15°	5549.2	5570.5	5648.0	5755.4	5814.1
17.5°	5428.0	5446.8	5498.0	5581.7	5626.7
20°	5288.1	5293.1	5336.8	5390.6	5429.3
22.5°	5114.4	5119.4	5144.4	5195.6	5221.9
25°	4912.0	4920.7	4947.0	4974.5	4990.7
27.5°	4663.3	4667.1	4654.6	4632.1	4637.1
30°	4318.4	4304.7	4234.7	4138.5	4109.8
32.5°	3866.1	3774.9	3623.7	3488.7	3433.8
35°	3165.1	3078.9	2948.9	2842.7	2801.5
37.5°	2274.2	2280.4	2271.7	2247.9	2252.9
40°	1438.2	1495.7	1631.9	1720.6	1748.1
42.5°	863.4	925.9	1075.9	1195.8	1234.6
45°	513.6	554.8	661.0	754.7	801.0
47.5°	329.9	349.9	402.4	457.3	483.6
50°	218.7	228.7	249.9	274.9	286.1
52.5°	139.9	143.7	153.7	162.4	171.2
55°	81.2	82.5	87.5	91.2	90.0
57.5°	42.5	42.5	42.5	42.5	42.5
60°	23.7	22.5	22.5	22.5	21.2
62.5°	11.2	11.2	11.2	10.0	10.0
65°	2.5	3.7	3.7	3.7	3.7
67.5°	0.0	0.0	0.0	0.0	1.2
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)