

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: P247152

Luminaire Tested: **LSR8B100D010 EC8B100835 8LBW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247152
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-58)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B100D010 EC8B100835 8LBW0H
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10960.0 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

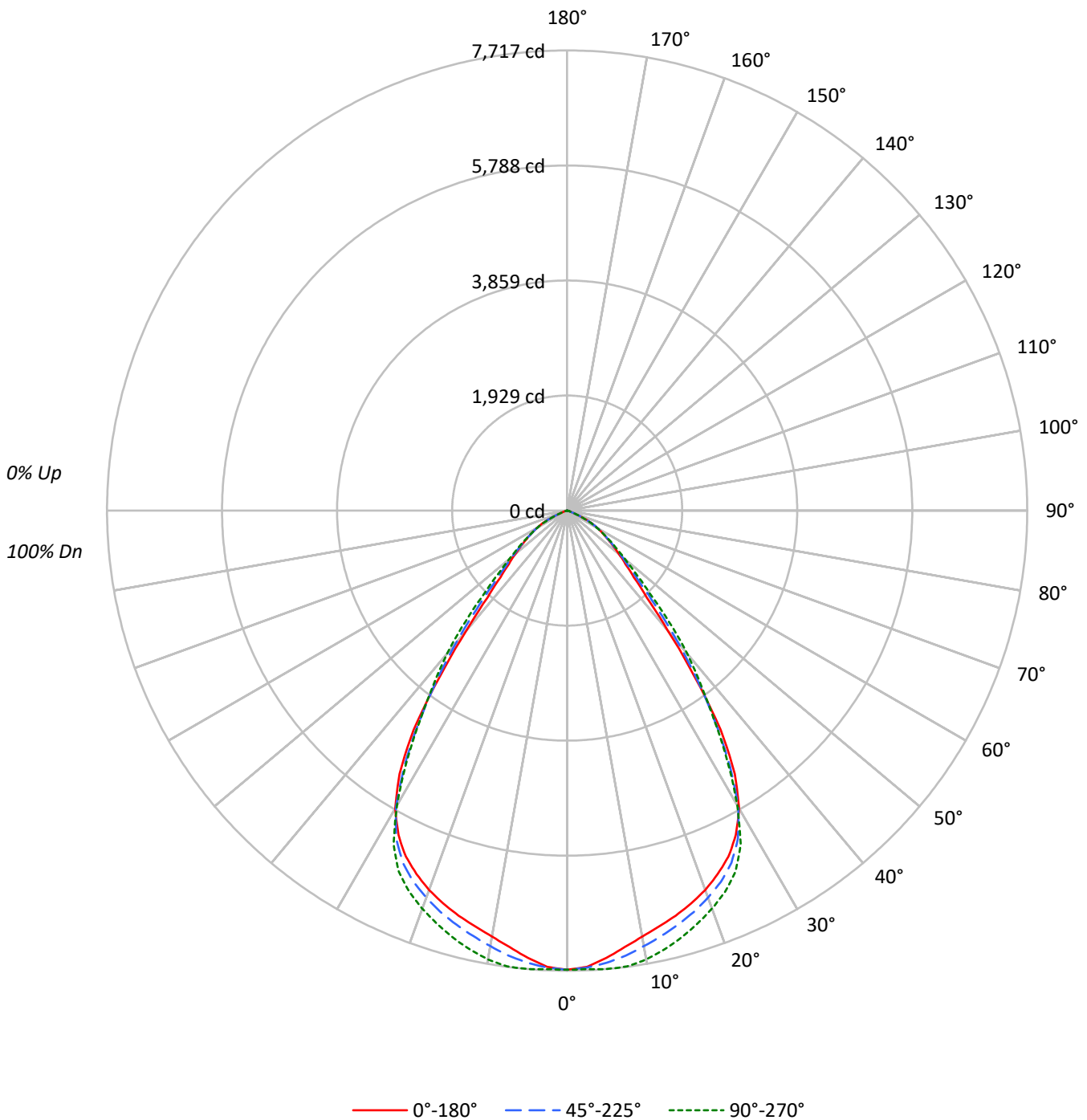
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82					82			
3	99	91	85	81	97	90	84	80	87	82	79	85	81	77	82	79	76	74					74			
4	93	84	77	72	91	82	76	72	80	75	71	78	74	70	76	72	69	67					67			
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	61					61			
6	81	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	57	56					56			
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51					51			
8	72	61	54	49	71	60	54	49	59	53	49	58	53	49	57	52	49	47					47			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43					43			
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40					40			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	237437	237437	237437
5°	233075	235607	238867
10°	227100	232269	239308
15°	224529	229467	236602
20°	222183	226662	233143
25°	217809	221745	227315
30°	205362	204436	203186
35°	168925	163101	162171
40°	105775	116708	126176
45°	69029	76961	85291
50°	54425	57044	60786
55°	44364	45133	46531
60°	36307	36066	35906
65°	23517	22853	21620
70°	8087	7501	6915
75°	2788	2633	2478
80°	1154	923	923
85°	460	460	460



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	721.3	6.6
10°-20°	2032.2	18.5
20°-30°	2972.2	27.1
30°-40°	2693.1	24.6
40°-50°	1432.0	13.1
50°-60°	764.3	7.0
60°-70°	311.7	2.8
70°-80°	31.5	0.3
80°-90°	1.8	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°	5725.6	52.2
0°-40°	8418.8	76.8
0°-60°	10615.0	96.9
0°-90°	10960.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10960.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7700	7700	7700	7700	7700	
5°	7530	7549	7612	7680	7717	710
15°	7033	7074	7188	7336	7411	1984
25°	6402	6429	6517	6629	6681	2926
35°	4487	4425	4333	4300	4308	2697
45°	1583	1630	1765	1905	1956	1295
55°	825	824	840	851	866	748
65°	322	321	313	295	296	321
75°	23	23	22	21	21	34
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7699.9	7699.9	7699.9	7699.9	7699.9
2.5°	7658.3	7657.0	7671.3	7688.2	7697.3
5°	7529.7	7549.1	7611.5	7680.4	7716.8
7.5°	7384.1	7420.5	7528.4	7646.6	7710.3
10°	7252.8	7299.6	7417.9	7572.5	7642.7
12.5°	7139.8	7185.3	7304.8	7463.4	7540.1
15°	7033.2	7073.5	7187.9	7336.0	7411.4
17.5°	6909.8	6948.8	7059.2	7199.6	7264.5
20°	6770.7	6803.2	6907.2	7038.4	7104.7
22.5°	6597.9	6633.0	6738.2	6859.1	6921.5
25°	6401.6	6428.9	6517.3	6629.1	6681.0
27.5°	6128.7	6153.4	6205.4	6265.2	6304.2
30°	5767.5	5761.0	5741.5	5723.3	5706.4
32.5°	5234.6	5172.3	5077.4	5017.6	5020.2
35°	4487.4	4425.0	4332.7	4300.2	4308.0
37.5°	3506.2	3553.0	3590.7	3653.1	3683.0
40°	2627.7	2708.3	2899.3	3065.7	3134.5
42.5°	1975.3	2054.6	2254.7	2430.2	2525.0
45°	1582.9	1629.6	1764.8	1905.2	1955.8
47.5°	1325.6	1346.3	1424.3	1514.0	1558.2
50°	1134.5	1147.5	1189.1	1238.5	1267.1
52.5°	972.1	977.3	998.1	1026.7	1044.8
55°	825.2	823.9	839.5	851.2	865.5
57.5°	697.9	696.6	696.6	700.5	709.6
60°	588.7	584.8	584.8	579.6	582.2
62.5°	479.5	475.6	466.5	460.0	457.4
65°	322.3	321.0	313.2	295.0	296.3
67.5°	167.6	166.3	158.5	153.3	150.7
70°	89.7	87.1	83.2	79.3	76.7
72.5°	45.5	44.2	42.9	40.3	40.3
75°	23.4	23.4	22.1	20.8	20.8
77.5°	11.7	11.7	10.4	10.4	10.4
80°	6.5	6.5	5.2	5.2	5.2
82.5°	2.6	2.6	2.6	2.6	2.6
85°	1.3	1.3	1.3	1.3	1.3
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)