

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: P247224

Luminaire Tested: **LSR8B100D010 EC8B100940 8LBS0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247224
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-83)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B100D010 EC8B100940 8LBS0H
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10600.0 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.23
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

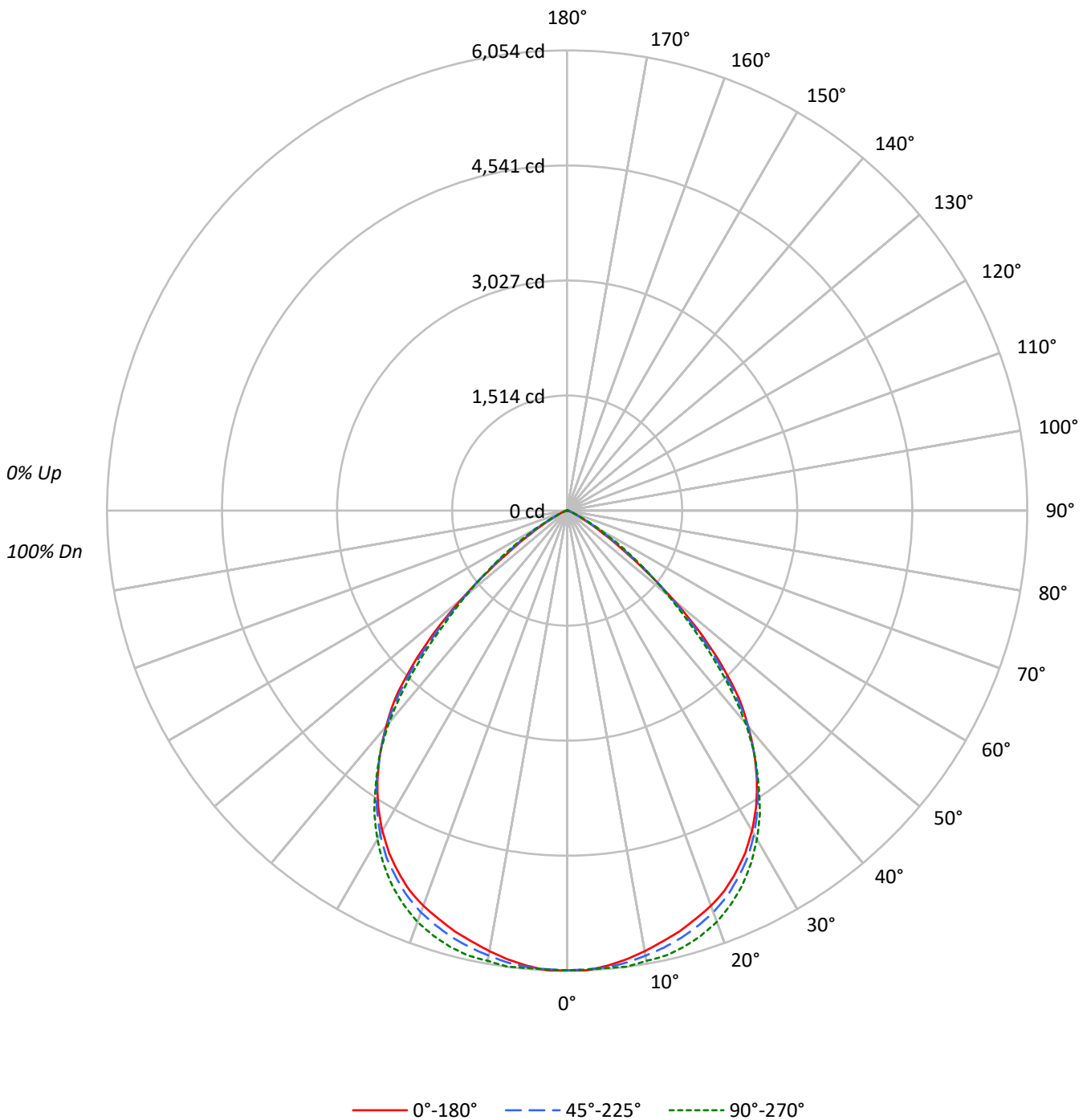
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	79	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48					48			
8	70	58	51	46	68	57	51	46	56	50	45	55	49	45	54	49	45	43					43			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40					40			
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	186535	186535	186535
5°	186065	186604	186997
10°	184303	186150	188326
15°	182842	185725	189715
20°	181564	184566	189010
25°	178722	181202	185220
30°	173187	175082	177763
35°	163794	164535	165145
40°	149197	149056	147052
45°	125437	121652	116402
50°	87123	85180	82907
55°	46611	51525	54573
60°	22560	25625	28912
65°	9879	9967	10390
70°	5319	4905	4796
75°	4694	4277	3038
80°	213	817	0
85°	425	425	2052



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	573.0	5.4
10°-20°	1643.3	15.5
20°-30°	2452.0	23.1
30°-40°	2715.6	25.6
40°-50°	2117.8	20.0
50°-60°	887.7	8.4
60°-70°	177.8	1.7
70°-80°	28.3	0.3
80°-90°	4.4	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°	4668.4	44.0
0°-40°	7384.0	69.7
0°-60°	10389.5	98.0
0°-90°	10600.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10600.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6049	6049	6049	6049	6049	
5°	6011	6016	6028	6045	6041	570
15°	5727	5753	5818	5903	5943	1616
25°	5253	5274	5326	5408	5444	2414
35°	4351	4344	4371	4392	4387	2704
45°	2876	2864	2790	2704	2669	2176
55°	867	901	958	997	1015	845
65°	135	135	137	147	142	163
75°	39	36	36	28	26	32
85°	1	2	1	0	6	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6049.2	6049.2	6049.2	6049.2	6049.2
2.5°	6053.8	6042.3	6039.9	6046.9	6042.3
5°	6011.0	6015.6	6028.4	6044.6	6041.1
7.5°	5955.4	5963.5	5998.3	6039.9	6050.4
10°	5886.0	5903.4	5945.0	5992.5	6014.5
12.5°	5805.0	5828.1	5888.3	5956.6	5997.1
15°	5727.4	5752.9	5817.7	5903.4	5942.7
17.5°	5630.2	5663.7	5727.4	5820.0	5860.5
20°	5532.9	5563.0	5624.4	5714.7	5759.8
22.5°	5412.6	5434.6	5492.4	5568.8	5615.1
25°	5252.8	5273.7	5325.7	5407.9	5443.8
27.5°	5074.6	5098.9	5146.3	5203.1	5235.5
30°	4863.9	4883.6	4917.1	4968.1	4992.4
32.5°	4626.6	4627.8	4661.3	4699.5	4721.5
35°	4351.1	4344.2	4370.8	4391.6	4387.0
37.5°	4046.7	4047.8	4045.5	4047.8	4052.5
40°	3706.4	3690.2	3702.9	3674.0	3653.1
42.5°	3345.2	3329.0	3279.3	3215.6	3180.9
45°	2876.4	2863.7	2789.6	2704.0	2669.2
47.5°	2361.3	2322.0	2261.8	2188.9	2155.3
50°	1816.1	1811.5	1775.6	1758.3	1728.2
52.5°	1298.7	1298.7	1342.7	1335.8	1334.6
55°	867.0	900.6	958.4	996.6	1015.1
57.5°	564.9	596.1	644.7	685.3	703.8
60°	365.8	380.8	415.5	446.8	468.8
62.5°	226.9	239.6	258.1	277.8	285.9
65°	135.4	135.4	136.6	147.0	142.4
67.5°	91.4	94.9	90.3	90.3	101.9
70°	59.0	55.6	54.4	53.2	53.2
72.5°	38.2	32.4	34.7	37.0	32.4
75°	39.4	35.9	35.9	27.8	25.5
77.5°	13.9	15.0	10.4	8.1	6.9
80°	1.2	4.6	4.6	1.2	0.0
82.5°	13.9	12.7	10.4	16.2	10.4
85°	1.2	2.3	1.2	0.0	5.8
87.5°	0.0	0.0	0.0	1.2	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)