

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: P247228

Luminaire Tested: **LSR8B100D010 EC8B100950 8LBS0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247228
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 EC8B100950 8LBS0H
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10974.0 lumens
Efficiency: N/A
Efficacy: 103.2 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

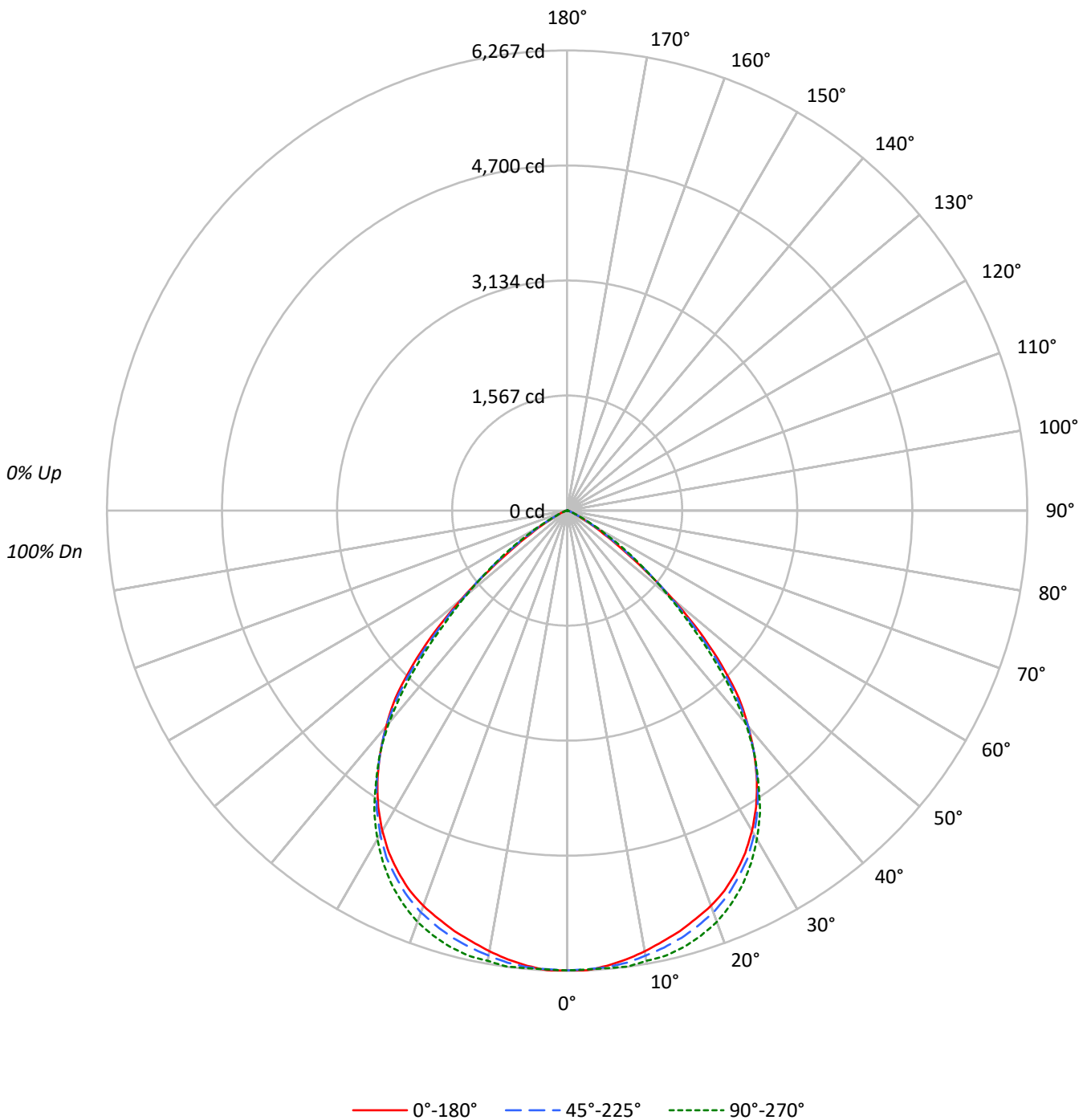
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	193116	193116	193116
5°	192630	193188	193593
10°	190806	192719	194971
15°	189294	192279	196410
20°	187973	191077	195678
25°	185030	187599	191756
30°	179298	181260	184033
35°	169572	170340	170972
40°	154462	154318	152240
45°	129864	125943	120509
50°	90198	88188	85833
55°	48256	53342	56503
60°	23355	26532	29930
65°	10230	10317	10755
70°	5509	5076	4968
75°	4849	4420	3145
80°	213	852	0
85°	425	425	2123



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	593.3	5.4
10°-20°	1701.3	15.5
20°-30°	2538.5	23.1
30°-40°	2811.4	25.6
40°-50°	2192.5	20.0
50°-60°	919.0	8.4
60°-70°	184.1	1.7
70°-80°	29.3	0.3
80°-90°	4.6	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°	4833.1	44.0
0°-40°	7644.6	69.7
0°-60°	10756.1	98.0
0°-90°	10974.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10974.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6263	6263	6263	6263	6263	
5°	6223	6228	6241	6258	6254	590
15°	5930	5956	6023	6112	6152	1673
25°	5438	5460	5514	5599	5636	2499
35°	4505	4497	4525	4547	4542	2800
45°	2978	2965	2888	2799	2763	2253
55°	898	932	992	1032	1051	874
65°	140	140	141	152	147	169
75°	41	37	37	29	26	33
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°	6262.6	6262.6	6262.6	6262.6	6262.6
2.5°	6267.4	6255.4	6253.0	6260.2	6255.4
5°	6223.1	6227.9	6241.1	6257.8	6254.2
7.5°	6165.6	6174.0	6209.9	6253.0	6263.8
10°	6093.7	6111.6	6154.8	6203.9	6226.7
12.5°	6009.8	6033.7	6096.1	6166.8	6208.7
15°	5929.5	5955.9	6023.0	6111.6	6152.4
17.5°	5828.8	5863.6	5929.5	6025.4	6067.3
20°	5728.2	5759.3	5822.8	5916.3	5963.0
22.5°	5603.5	5626.3	5686.2	5765.3	5813.2
25°	5438.2	5459.7	5513.7	5598.7	5635.9
27.5°	5253.6	5278.8	5327.9	5386.6	5420.2
30°	5035.5	5055.9	5090.6	5143.4	5168.5
32.5°	4789.8	4791.0	4825.8	4865.3	4888.1
35°	4504.6	4497.4	4525.0	4546.6	4541.8
37.5°	4189.5	4190.7	4188.3	4190.7	4195.5
40°	3837.2	3820.4	3833.6	3803.6	3782.0
42.5°	3463.3	3446.5	3395.0	3329.0	3293.1
45°	2977.9	2964.7	2888.0	2799.4	2763.4
47.5°	2444.7	2403.9	2341.6	2266.1	2231.3
50°	1880.2	1875.4	1838.3	1820.3	1789.2
52.5°	1344.6	1344.6	1390.1	1382.9	1381.7
55°	897.6	932.3	992.2	1031.8	1051.0
57.5°	584.8	617.2	667.5	709.4	728.6
60°	378.7	394.3	430.2	462.6	485.3
62.5°	234.9	248.1	267.2	287.6	296.0
65°	140.2	140.2	141.4	152.2	147.4
67.5°	94.7	98.3	93.5	93.5	105.5
70°	61.1	57.5	56.3	55.1	55.1
72.5°	39.5	33.6	36.0	38.3	33.6
75°	40.7	37.1	37.1	28.8	26.4
77.5°	14.4	15.6	10.8	8.4	7.2
80°	1.2	4.8	4.8	1.2	0.0
82.5°	14.4	13.2	10.8	16.8	10.8
85°	1.2	2.4	1.2	0.0	6.0
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)