

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: P247208

Luminaire Tested: **LSR8B100D010 EC8B100850 8LBS0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247208
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 EC8B100850 8LBS0H
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12054.0 lumens
Efficiency: N/A
Efficacy: 113.4 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

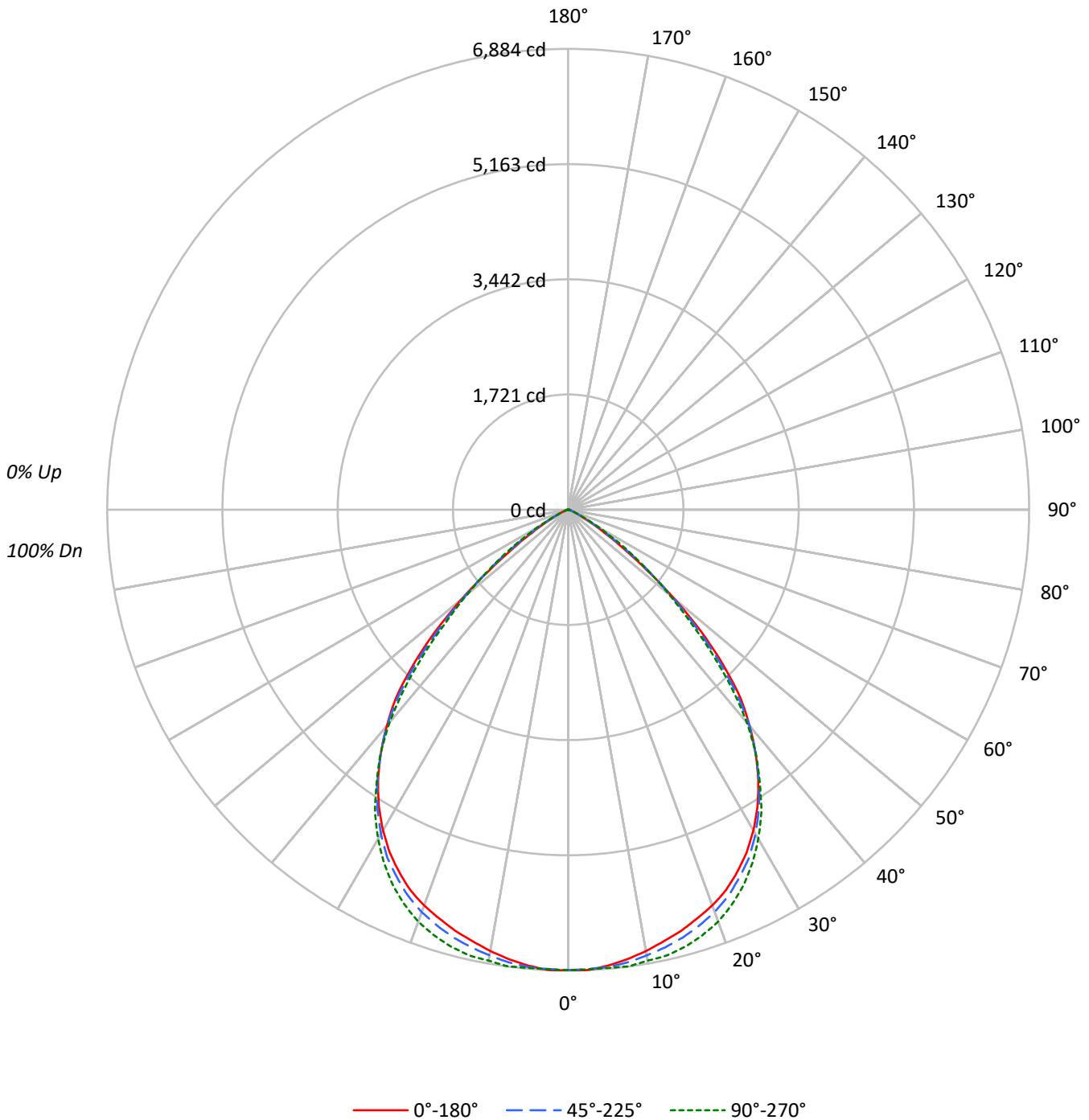
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	212123	212123	212123
5°	211587	212200	212649
10°	209584	211685	214159
15°	207922	211200	215740
20°	206471	209884	214937
25°	203240	206060	210626
30°	196944	199098	202146
35°	186263	187103	187799
40°	169662	169501	167223
45°	142645	138341	132371
50°	99078	96867	94276
55°	53003	58595	62062
60°	25650	29146	32878
65°	11237	11331	11813
70°	6050	5581	5455
75°	5338	4861	3455
80°	231	941	0
85°	460	460	2335



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	651.7	5.4
10°-20°	1868.8	15.5
20°-30°	2788.4	23.1
30°-40°	3088.1	25.6
40°-50°	2408.3	20.0
50°-60°	1009.4	8.4
60°-70°	202.2	1.7
70°-80°	32.2	0.3
80°-90°	5.0	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°	5308.8	44.0
0°-40°	8396.9	69.7
0°-60°	11814.6	98.0
0°-90°	12054.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12054.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6879	6879	6879	6879	6879	
5°	6836	6841	6855	6874	6870	648
15°	6513	6542	6616	6713	6758	1837
25°	5973	5997	6056	6150	6190	2745
35°	4948	4940	4970	4994	4989	3075
45°	3271	3256	3172	3075	3035	2475
55°	986	1024	1090	1133	1154	960
65°	154	154	155	167	162	186
75°	45	41	41	32	29	36
85°	1	3	1	0	7	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6879.0	6879.0	6879.0	6879.0	6879.0
2.5°	6884.2	6871.1	6868.4	6876.3	6871.1
5°	6835.5	6840.8	6855.3	6873.7	6869.8
7.5°	6772.3	6781.6	6821.0	6868.4	6880.3
10°	6693.4	6713.1	6760.5	6814.5	6839.5
12.5°	6601.2	6627.6	6696.0	6773.7	6819.7
15°	6513.0	6542.0	6615.7	6713.1	6757.9
17.5°	6402.5	6440.6	6513.0	6618.3	6664.4
20°	6291.9	6326.1	6395.9	6498.6	6549.9
22.5°	6155.0	6180.0	6245.8	6332.7	6385.4
25°	5973.4	5997.0	6056.3	6149.7	6190.5
27.5°	5770.6	5798.3	5852.3	5916.8	5953.6
30°	5531.1	5553.5	5591.6	5649.5	5677.2
32.5°	5261.2	5262.6	5300.7	5344.2	5369.2
35°	4948.0	4940.1	4970.3	4994.0	4988.8
37.5°	4601.8	4603.1	4600.5	4603.1	4608.4
40°	4214.8	4196.4	4210.8	4177.9	4154.2
42.5°	3804.1	3785.7	3729.1	3656.7	3617.2
45°	3271.0	3256.5	3172.3	3074.9	3035.4
47.5°	2685.2	2640.5	2572.0	2489.1	2450.9
50°	2065.3	2060.0	2019.2	1999.5	1965.2
52.5°	1476.9	1476.9	1526.9	1519.0	1517.7
55°	985.9	1024.1	1089.9	1133.3	1154.4
57.5°	642.4	677.9	733.2	779.2	800.3
60°	415.9	433.1	472.6	508.1	533.1
62.5°	258.0	272.5	293.5	315.9	325.1
65°	154.0	154.0	155.3	167.2	161.9
67.5°	104.0	107.9	102.7	102.7	115.8
70°	67.1	63.2	61.9	60.5	60.5
72.5°	43.4	36.9	39.5	42.1	36.9
75°	44.8	40.8	40.8	31.6	29.0
77.5°	15.8	17.1	11.8	9.2	7.9
80°	1.3	5.3	5.3	1.3	0.0
82.5°	15.8	14.5	11.8	18.4	11.8
85°	1.3	2.6	1.3	0.0	6.6
87.5°	0.0	0.0	0.0	1.3	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)