

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: P247555

Luminaire Tested: **LSR8B90D010 EC8B90935 8LBS0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247555
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-86)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B90D010 EC8B90935 8LBS0GPH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8028.0 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.19 / 1.23
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

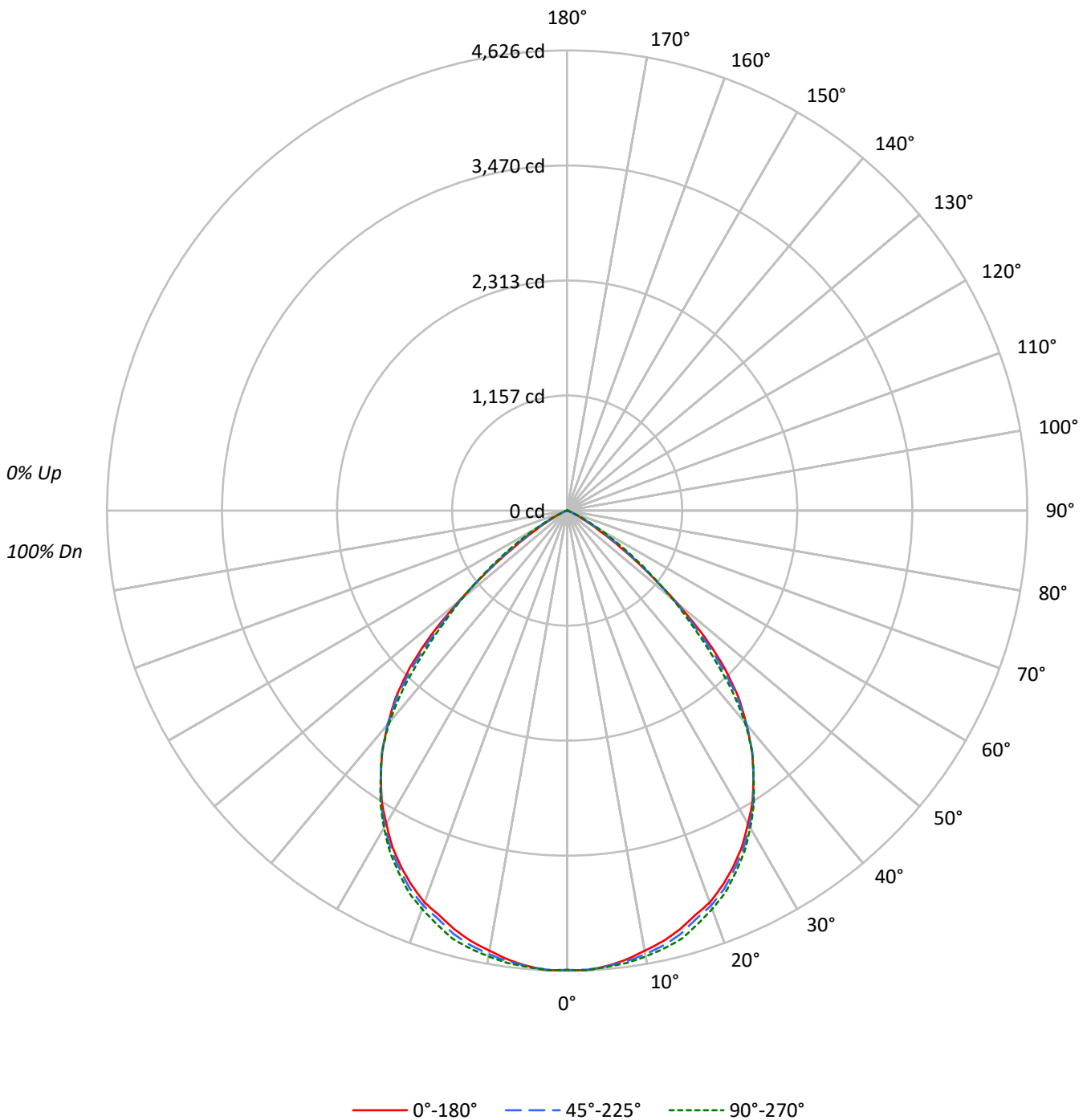
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48					48			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43					43			
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39					39			
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	142411	142411	142411
5°	142243	142302	142510
10°	140701	141781	142504
15°	139250	140690	142222
20°	137559	138661	139859
25°	134388	135368	136481
30°	129455	130445	131132
35°	122833	122942	122976
40°	112868	113061	111898
45°	97641	94209	90018
50°	68476	67095	66217
55°	37181	40278	42912
60°	16411	20025	22689
65°	6304	7917	9464
70°	3201	2858	3724
75°	1025	1942	1716
80°	852	178	1030
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	436.9	5.4
10°-20°	1240.7	15.5
20°-30°	1829.6	22.8
30°-40°	2036.5	25.4
40°-50°	1639.0	20.4
50°-60°	696.9	8.7
60°-70°	130.6	1.6
70°-80°	15.9	0.2
80°-90°	2.0	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°	3507.2	43.7
0°-40°	5543.6	69.1
0°-60°	7879.5	98.2
0°-90°	8028.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8028.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4618	4618	4618	4618	4618	
5°	4595	4596	4597	4605	4604	435
15°	4362	4386	4407	4441	4455	1229
25°	3950	3964	3979	4002	4011	1815
35°	3263	3264	3266	3267	3267	2032
45°	2239	2221	2160	2095	2064	1683
55°	692	707	749	779	798	659
65°	86	96	108	116	130	112
75°	9	11	16	15	14	14
85°	0	0	0	0	0	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4618.3	4618.3	4618.3	4618.3	4618.3
2.5°	4626.0	4628.9	4619.3	4621.2	4624.1
5°	4595.3	4596.2	4597.2	4604.9	4603.9
7.5°	4552.1	4558.8	4570.3	4584.7	4588.6
10°	4493.5	4510.8	4528.0	4545.3	4551.1
12.5°	4435.8	4446.4	4477.1	4494.4	4508.8
15°	4361.9	4385.9	4407.0	4440.6	4455.0
17.5°	4267.7	4285.0	4305.2	4338.8	4359.0
20°	4191.9	4196.7	4225.5	4255.2	4262.0
22.5°	4079.5	4090.0	4119.8	4140.0	4157.3
25°	3949.8	3964.2	3978.6	4001.7	4011.3
27.5°	3807.6	3816.3	3836.4	3852.8	3861.4
30°	3635.7	3654.9	3663.5	3671.2	3682.8
32.5°	3468.6	3474.3	3482.0	3486.8	3492.6
35°	3263.0	3264.0	3265.9	3266.8	3266.8
37.5°	3052.6	3059.4	3057.4	3051.7	3054.6
40°	2803.9	2815.4	2808.7	2791.4	2779.8
42.5°	2553.1	2547.4	2524.3	2472.5	2448.4
45°	2239.0	2220.8	2160.3	2095.0	2064.2
47.5°	1862.5	1822.2	1771.3	1720.3	1700.2
50°	1427.4	1421.6	1398.6	1378.4	1380.3
52.5°	1023.0	1037.4	1042.2	1061.4	1071.0
55°	691.6	707.0	749.2	779.0	798.2
57.5°	420.7	450.5	495.6	544.6	569.6
60°	266.1	283.4	324.7	356.4	367.9
62.5°	166.2	167.1	187.3	212.3	222.8
65°	86.4	96.1	108.5	116.2	129.7
67.5°	53.8	53.8	52.8	64.4	72.0
70°	35.5	30.7	31.7	38.4	41.3
72.5°	12.5	21.1	19.2	19.2	13.4
75°	8.6	10.6	16.3	15.4	14.4
77.5°	11.5	10.6	7.7	6.7	13.4
80°	4.8	3.8	1.0	5.8	5.8
82.5°	4.8	1.9	5.8	7.7	4.8
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	1.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)