

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: P247531

Luminaire Tested: **LSR8B90D010 EC8B90830 8LBS0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247531
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 EC8B90830 8LBS0GPH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9052.0 lumens
Efficiency: N/A
Efficacy: 105.1 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

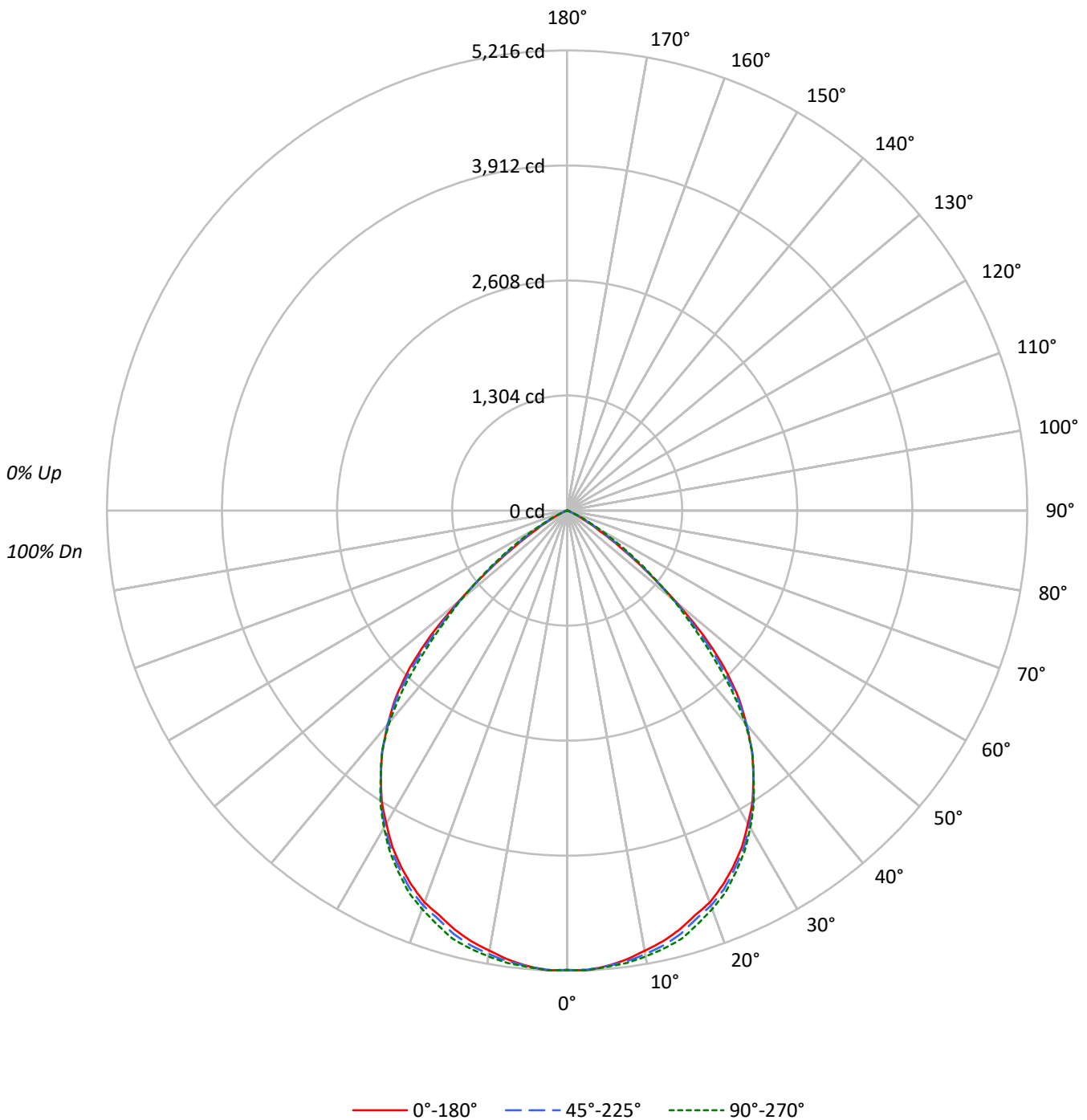
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	160577	160577	160577
5°	160386	160454	160689
10°	158645	159867	160681
15°	157009	158634	160364
20°	155102	156345	157697
25°	151530	152636	153888
30°	145966	147084	147857
35°	138500	138625	138662
40°	127263	127480	126172
45°	110096	106223	101500
50°	77207	75653	74665
55°	41923	45418	48385
60°	18502	22578	25582
65°	7114	8931	10667
70°	3615	3219	4201
75°	1156	2192	1930
80°	959	195	1154
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	492.6	5.4
10°-20°	1398.9	15.5
20°-30°	2063.0	22.8
30°-40°	2296.2	25.4
40°-50°	1848.0	20.4
50°-60°	785.8	8.7
60°-70°	147.3	1.6
70°-80°	17.9	0.2
80°-90°	2.2	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°	3954.5	43.7
0°-40°	6250.7	69.1
0°-60°	8884.6	98.2
0°-90°	9052.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9052.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5207	5207	5207	5207	5207	
5°	5181	5182	5184	5192	5191	491
15°	4918	4945	4969	5007	5023	1386
25°	4454	4470	4486	4512	4523	2047
35°	3679	3680	3682	3684	3684	2291
45°	2525	2504	2436	2362	2328	1898
55°	780	797	845	878	900	743
65°	98	108	122	131	146	126
75°	10	12	18	17	16	16
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°	5207.4	5207.4	5207.4	5207.4	5207.4
2.5°	5216.1	5219.3	5208.5	5210.7	5213.9
5°	5181.4	5182.5	5183.6	5192.3	5191.2
7.5°	5132.7	5140.3	5153.3	5169.5	5173.8
10°	5066.6	5086.1	5105.6	5125.1	5131.6
12.5°	5001.6	5013.6	5048.2	5067.7	5084.0
15°	4918.2	4945.3	4969.1	5007.1	5023.3
17.5°	4812.1	4831.6	4854.3	4892.2	4915.0
20°	4726.5	4732.0	4764.4	4798.0	4805.6
22.5°	4599.8	4611.7	4645.3	4668.1	4687.5
25°	4453.6	4469.8	4486.1	4512.1	4522.9
27.5°	4293.3	4303.1	4325.8	4344.2	4354.0
30°	4099.4	4121.1	4130.8	4139.5	4152.5
32.5°	3911.0	3917.5	3926.1	3931.6	3938.1
35°	3679.2	3680.3	3682.5	3683.5	3683.5
37.5°	3442.0	3449.6	3447.4	3440.9	3444.2
40°	3161.5	3174.5	3166.9	3147.4	3134.4
42.5°	2878.8	2872.3	2846.3	2787.8	2760.8
45°	2524.6	2504.1	2435.8	2362.2	2327.5
47.5°	2100.1	2054.6	1997.2	1939.8	1917.0
50°	1609.4	1603.0	1577.0	1554.2	1556.4
52.5°	1153.5	1169.7	1175.1	1196.8	1207.6
55°	779.8	797.1	844.8	878.4	900.0
57.5°	474.4	508.0	558.9	614.1	642.3
60°	300.0	319.5	366.1	401.8	414.8
62.5°	187.4	188.5	211.2	239.4	251.3
65°	97.5	108.3	122.4	131.1	146.2
67.5°	60.7	60.7	59.6	72.6	81.2
70°	40.1	34.7	35.7	43.3	46.6
72.5°	14.1	23.8	21.7	21.7	15.2
75°	9.7	11.9	18.4	17.3	16.2
77.5°	13.0	11.9	8.7	7.6	15.2
80°	5.4	4.3	1.1	6.5	6.5
82.5°	5.4	2.2	6.5	8.7	5.4
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	1.1	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)