

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: P247479

Luminaire Tested: **LSR8B90D010 EC8B90827 8LBW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247479
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-61)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B90D010 EC8B90827 8LBW0GPH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8021.0 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.13 / 1.05
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

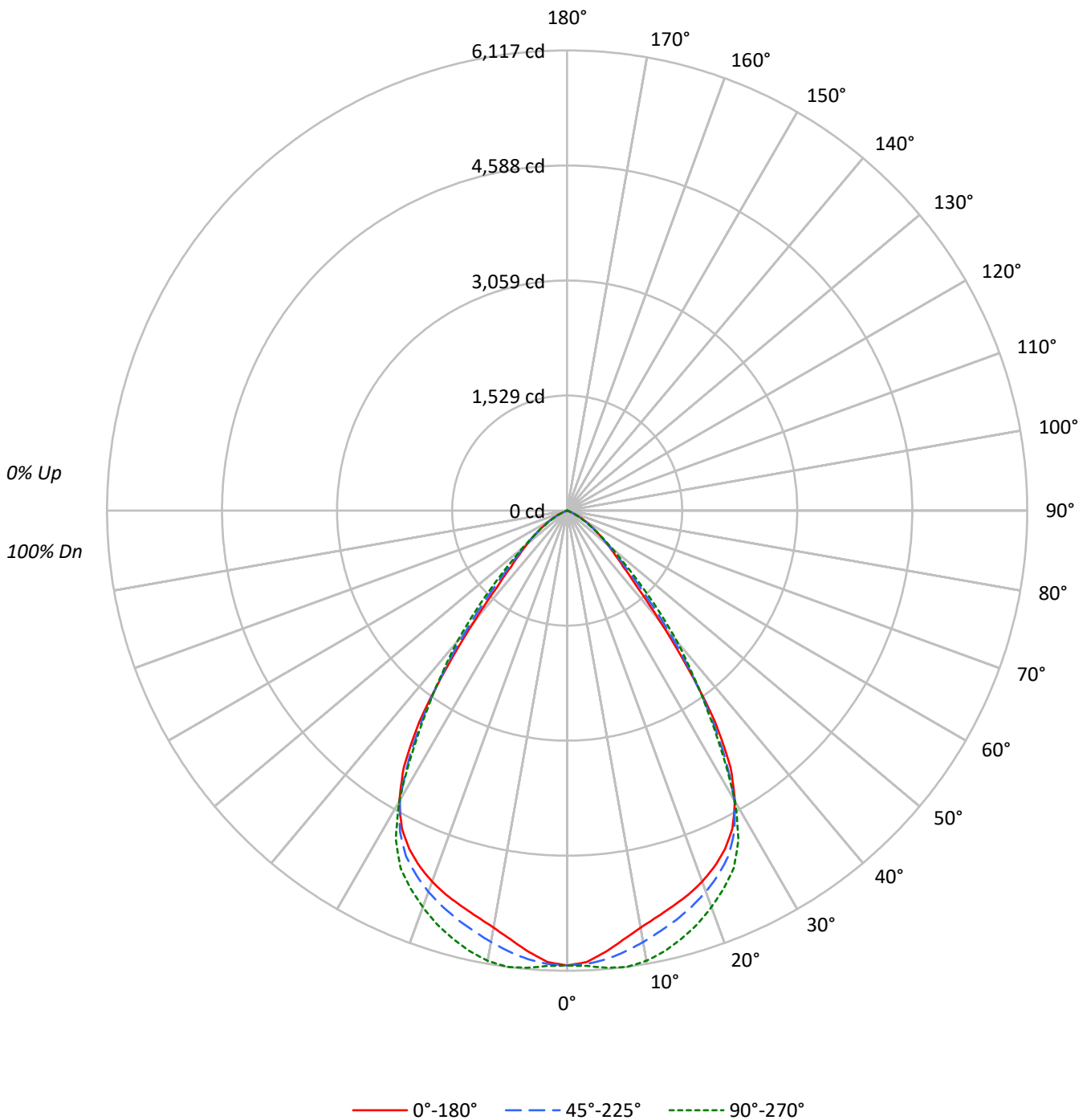
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94					92				
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	85					84				
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78					76				
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71					69				
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65					63				
6	83	73	66	61	81	72	66	61	70	65	61	69	64	60	68	63	60					58				
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55					53				
8	74	63	56	52	72	62	56	52	61	55	51	60	55	51	59	54	51					49				
9	70	59	52	48	68	58	52	48	57	52	47	56	51	47	55	51	47					46				
10	66	55	49	44	65	55	48	44	54	48	44	53	48	44	52	47	44					42				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	186461	186461	186461
5°	182236	185310	188842
10°	176205	182358	190299
15°	173712	179650	187979
20°	172251	176966	184074
25°	168926	172519	178307
30°	158799	158197	158952
35°	129029	124693	122784
40°	76599	84425	91445
45°	45846	51607	58611
50°	33403	34262	36800
55°	24198	23349	23859
60°	16423	15184	14598
65°	8252	7632	7245
70°	2290	2002	1812
75°	882	631	631
80°	373	373	195
85°	389	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	566.9	7.1
10°-20°	1592.1	19.8
20°-30°	2314.1	28.8
30°-40°	2046.4	25.5
40°-50°	973.5	12.1
50°-60°	405.5	5.1
60°-70°	113.3	1.4
70°-80°	8.6	0.1
80°-90°	0.6	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°	4473.1	55.8
0°-40°	6519.5	81.3
0°-60°	7898.5	98.5
0°-90°	8021.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8021.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6047	6047	6047	6047	6047	
5°	5887	5917	5987	6066	6101	554
15°	5441	5491	5627	5798	5888	1537
25°	4965	4987	5070	5182	5241	2269
35°	3428	3379	3312	3262	3262	2051
45°	1051	1088	1183	1293	1344	875
55°	450	445	434	434	444	409
65°	113	111	105	100	99	123
75°	7	6	5	5	5	10
85°	1	1	0	0	0	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6046.8	6046.8	6046.8	6046.8	6046.8
2.5°	6006.7	6012.0	6032.0	6051.0	6059.5
5°	5887.3	5916.9	5986.6	6065.8	6100.7
7.5°	5751.0	5795.4	5912.6	6052.1	6116.6
10°	5627.4	5683.4	5823.9	5996.1	6077.5
12.5°	5530.1	5581.9	5725.6	5905.2	5997.2
15°	5441.4	5491.1	5627.4	5798.5	5888.3
17.5°	5352.6	5400.2	5517.5	5677.0	5763.7
20°	5249.1	5287.1	5392.8	5533.3	5609.4
22.5°	5120.2	5155.1	5243.8	5368.5	5437.2
25°	4964.9	4987.1	5070.5	5182.5	5240.6
27.5°	4758.8	4764.1	4814.8	4887.7	4931.1
30°	4459.8	4456.7	4442.9	4439.8	4464.1
32.5°	4041.4	3994.9	3914.6	3876.6	3847.0
35°	3427.6	3378.9	3312.4	3261.7	3261.7
37.5°	2620.3	2662.6	2689.0	2720.7	2736.5
40°	1902.9	1965.2	2097.3	2234.7	2271.7
42.5°	1383.1	1441.2	1583.8	1737.0	1781.4
45°	1051.3	1088.3	1183.4	1293.3	1344.0
47.5°	849.5	860.1	907.6	973.1	997.4
50°	696.3	699.5	714.2	748.1	767.1
52.5°	563.2	561.0	565.3	574.8	583.2
55°	450.1	444.8	434.3	434.3	443.8
57.5°	347.6	340.2	328.6	323.3	320.1
60°	266.3	258.9	246.2	237.7	236.7
62.5°	191.2	184.9	172.2	164.8	162.7
65°	113.1	110.9	104.6	100.4	99.3
67.5°	52.8	50.7	45.4	43.3	42.3
70°	25.4	24.3	22.2	21.1	20.1
72.5°	12.7	12.7	10.6	10.6	10.6
75°	7.4	6.3	5.3	5.3	5.3
77.5°	4.2	3.2	3.2	3.2	3.2
80°	2.1	2.1	2.1	1.1	1.1
82.5°	1.1	1.1	1.1	1.1	1.1
85°	1.1	1.1	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)