

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: P247515

Luminaire Tested: **LSR8B90D010 EC8B90950 8LBW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247515
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 EC8B90950 8LBW0GPH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7884.0 lumens
Efficiency: N/A
Efficacy: 91.6 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

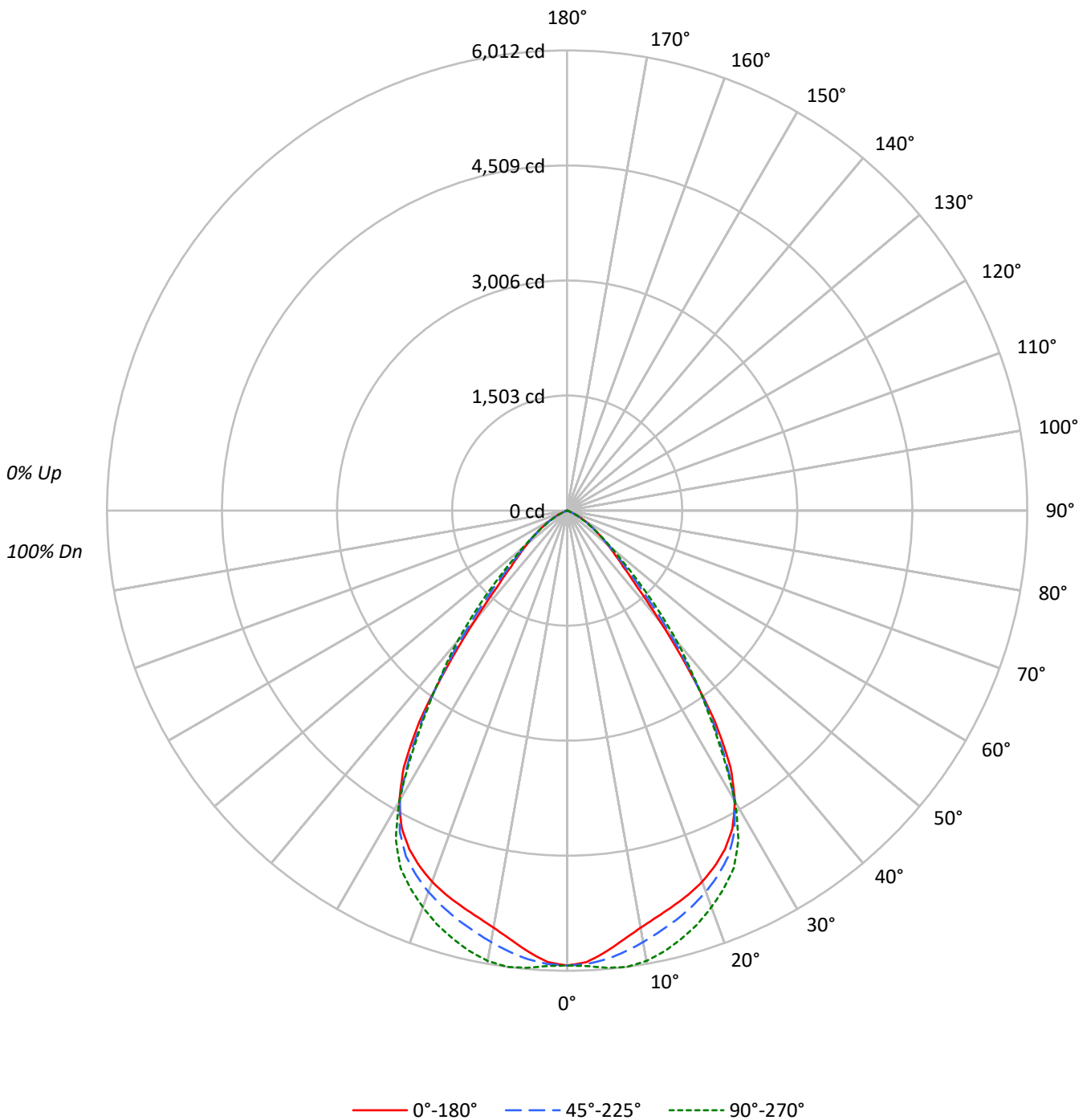
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	183276	183276	183276
5°	179122	182143	185616
10°	173193	179242	187049
15°	170746	176579	184770
20°	169307	173944	180931
25°	166041	169573	175262
30°	156089	155494	156235
35°	126823	122562	120687
40°	75291	82984	89883
45°	45061	50726	57608
50°	32833	33677	36171
55°	23784	22945	23451
60°	16140	14925	14345
65°	8106	7501	7121
70°	2245	1965	1776
75°	870	620	620
80°	373	373	178
85°	354	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	557.3	7.1
10°-20°	1564.9	19.8
20°-30°	2274.5	28.9
30°-40°	2011.4	25.5
40°-50°	956.9	12.1
50°-60°	398.6	5.1
60°-70°	111.3	1.4
70°-80°	8.4	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°	4396.7	55.8
0°-40°	6408.2	81.3
0°-60°	7763.6	98.5
0°-90°	7884.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7884.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5944	5944	5944	5944	5944	
5°	5787	5816	5884	5962	5996	544
15°	5348	5397	5531	5700	5788	1511
25°	4880	4902	4984	5094	5151	2230
35°	3369	3321	3256	3206	3206	2016
45°	1033	1070	1163	1271	1321	860
55°	442	437	427	427	436	402
65°	111	109	103	99	98	121
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°	5943.5	5943.5	5943.5	5943.5	5943.5
2.5°	5904.1	5909.3	5929.0	5947.7	5956.0
5°	5786.7	5815.8	5884.3	5962.2	5996.5
7.5°	5652.7	5696.4	5811.6	5948.7	6012.1
10°	5531.2	5586.3	5724.4	5893.7	5973.7
12.5°	5435.7	5486.6	5627.8	5804.4	5894.7
15°	5348.5	5397.3	5531.2	5699.5	5787.8
17.5°	5261.2	5308.0	5423.2	5580.0	5665.2
20°	5159.4	5196.8	5300.7	5438.8	5513.6
22.5°	5032.7	5067.0	5154.2	5276.8	5344.3
25°	4880.1	4901.9	4983.9	5094.0	5151.1
27.5°	4677.6	4682.8	4732.6	4804.3	4846.8
30°	4383.7	4380.5	4367.0	4363.9	4387.8
32.5°	3972.4	3926.7	3847.8	3810.4	3781.3
35°	3369.0	3321.2	3255.8	3206.0	3206.0
37.5°	2575.6	2617.1	2643.1	2674.2	2689.8
40°	1870.4	1931.7	2061.5	2196.5	2232.9
42.5°	1359.4	1416.6	1556.8	1707.4	1751.0
45°	1033.3	1069.7	1163.2	1271.2	1321.0
47.5°	835.0	845.4	892.1	956.5	980.4
50°	684.4	687.5	702.0	735.3	754.0
52.5°	553.5	551.5	555.6	565.0	573.3
55°	442.4	437.2	426.8	426.8	436.2
57.5°	341.7	334.4	323.0	317.8	314.7
60°	261.7	254.4	242.0	233.7	232.6
62.5°	188.0	181.7	169.3	162.0	159.9
65°	111.1	109.0	102.8	98.7	97.6
67.5°	51.9	49.8	44.7	42.6	41.5
70°	24.9	23.9	21.8	20.8	19.7
72.5°	12.5	12.5	10.4	10.4	10.4
75°	7.3	6.2	5.2	5.2	5.2
77.5°	4.2	3.1	3.1	3.1	3.1
80°	2.1	2.1	2.1	1.0	1.0
82.5°	1.0	1.0	1.0	1.0	1.0
85°	1.0	1.0	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)