

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: P247203

Luminaire Tested: **LSR8B90D010 EC8B90840 8LBS0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247203
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: LSR8B90D010 EC8B90840 8LBS0H
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10247.0 lumens
Efficiency: N/A
Efficacy: 119.0 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

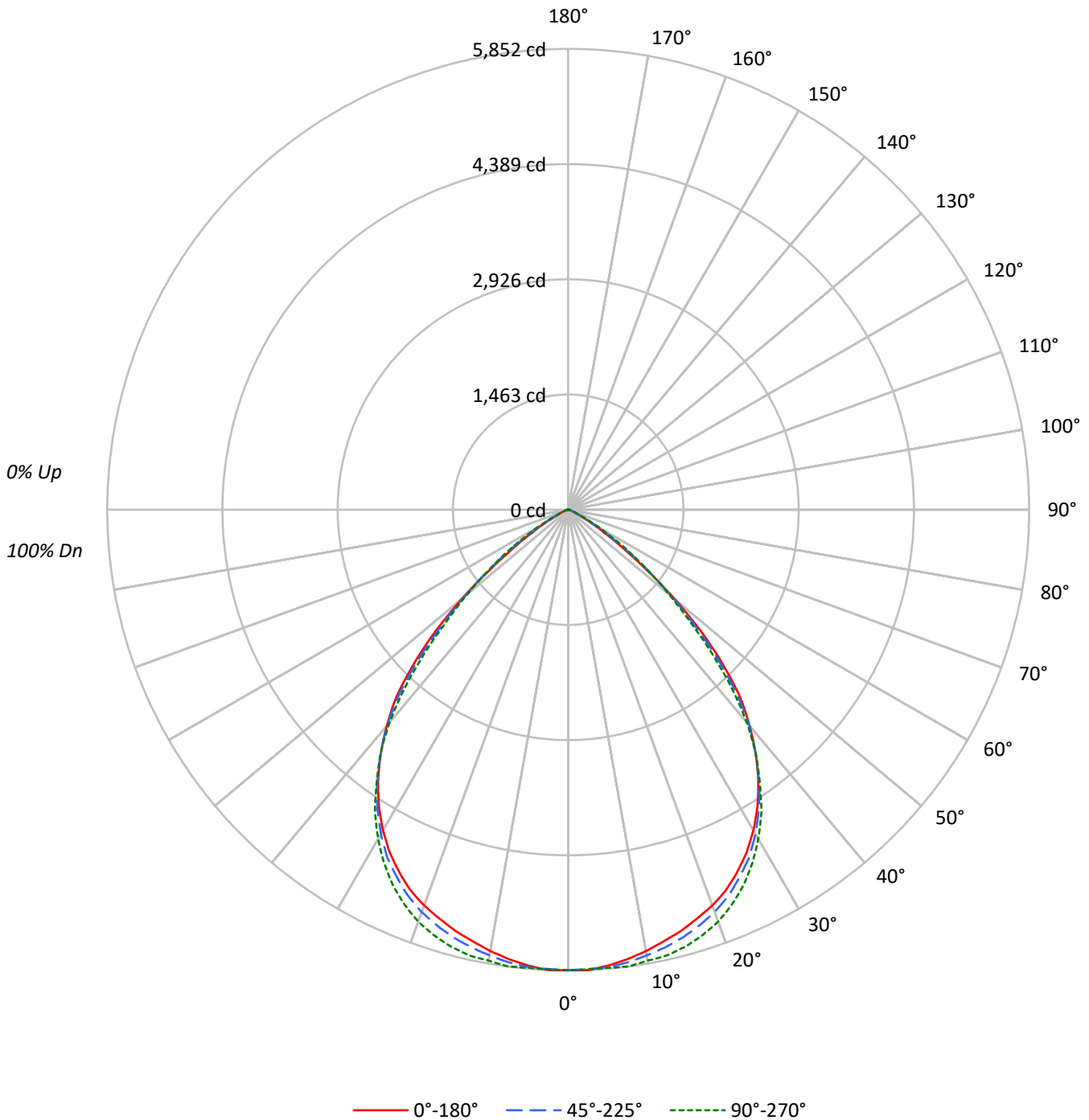
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	180322	180322	180322
5°	179868	180388	180769
10°	178165	179950	182054
15°	176754	179541	183398
20°	175519	178420	182716
25°	172771	175170	179052
30°	167419	169253	171842
35°	158339	159054	159645
40°	144226	144093	142157
45°	121260	117601	112525
50°	84226	82345	80143
55°	45057	49810	52756
60°	21807	24774	27950
65°	9551	9631	10040
70°	5148	4742	4643
75°	4527	4134	2931
80°	195	799	0
85°	389	389	1981



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	554.0	5.4
10°-20°	1588.6	15.5
20°-30°	2370.4	23.1
30°-40°	2625.2	25.6
40°-50°	2047.3	20.0
50°-60°	858.1	8.4
60°-70°	171.9	1.7
70°-80°	27.3	0.3
80°-90°	4.3	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°	4512.9	44.0
0°-40°	7138.1	69.7
0°-60°	10043.5	98.0
0°-90°	10247.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10247.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5848	5848	5848	5848	5848	
5°	5811	5815	5828	5843	5840	551
15°	5537	5561	5624	5707	5745	1562
25°	5078	5098	5148	5228	5262	2333
35°	4206	4200	4225	4245	4241	2614
45°	2781	2768	2697	2614	2580	2104
55°	838	871	926	963	981	816
65°	131	131	132	142	138	158
75°	38	35	35	27	25	31
85°	1	2	1	0	6	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5847.7	5847.7	5847.7	5847.7	5847.7
2.5°	5852.2	5841.0	5838.8	5845.5	5841.0
5°	5810.8	5815.3	5827.6	5843.3	5839.9
7.5°	5757.1	5764.9	5798.5	5838.8	5848.9
10°	5690.0	5706.8	5747.0	5792.9	5814.2
12.5°	5611.6	5634.0	5692.2	5758.2	5797.4
15°	5536.7	5561.3	5624.0	5706.8	5744.8
17.5°	5442.7	5475.1	5536.7	5626.2	5665.4
20°	5348.7	5377.8	5437.1	5524.4	5568.0
22.5°	5232.3	5253.6	5309.5	5383.4	5428.1
25°	5077.9	5098.0	5148.4	5227.8	5262.5
27.5°	4905.6	4929.1	4974.9	5029.8	5061.1
30°	4701.9	4720.9	4753.4	4802.6	4826.1
32.5°	4472.5	4473.7	4506.1	4543.0	4564.3
35°	4206.2	4199.5	4225.2	4245.4	4240.9
37.5°	3911.9	3913.0	3910.8	3913.0	3917.5
40°	3582.9	3567.3	3579.6	3551.6	3531.5
42.5°	3233.8	3218.2	3170.0	3108.5	3074.9
45°	2780.6	2768.3	2696.7	2613.9	2580.3
47.5°	2282.7	2244.7	2186.5	2116.0	2083.5
50°	1755.7	1751.2	1716.5	1699.7	1670.6
52.5°	1255.5	1255.5	1298.0	1291.3	1290.2
55°	838.1	870.6	926.5	963.4	981.3
57.5°	546.1	576.3	623.3	662.4	680.3
60°	353.6	368.1	401.7	431.9	453.2
62.5°	219.3	231.6	249.5	268.6	276.4
65°	130.9	130.9	132.0	142.1	137.6
67.5°	88.4	91.8	87.3	87.3	98.5
70°	57.1	53.7	52.6	51.5	51.5
72.5°	36.9	31.3	33.6	35.8	31.3
75°	38.0	34.7	34.7	26.9	24.6
77.5°	13.4	14.5	10.1	7.8	6.7
80°	1.1	4.5	4.5	1.1	0.0
82.5°	13.4	12.3	10.1	15.7	10.1
85°	1.1	2.2	1.1	0.0	5.6
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)