

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: P247095

Luminaire Tested: **LSR8B90D010 EC8B90827 8LBSOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247095
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-82)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B90D010 EC8B90827 8LBS0LI
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9934.0 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.31 / 1.25
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

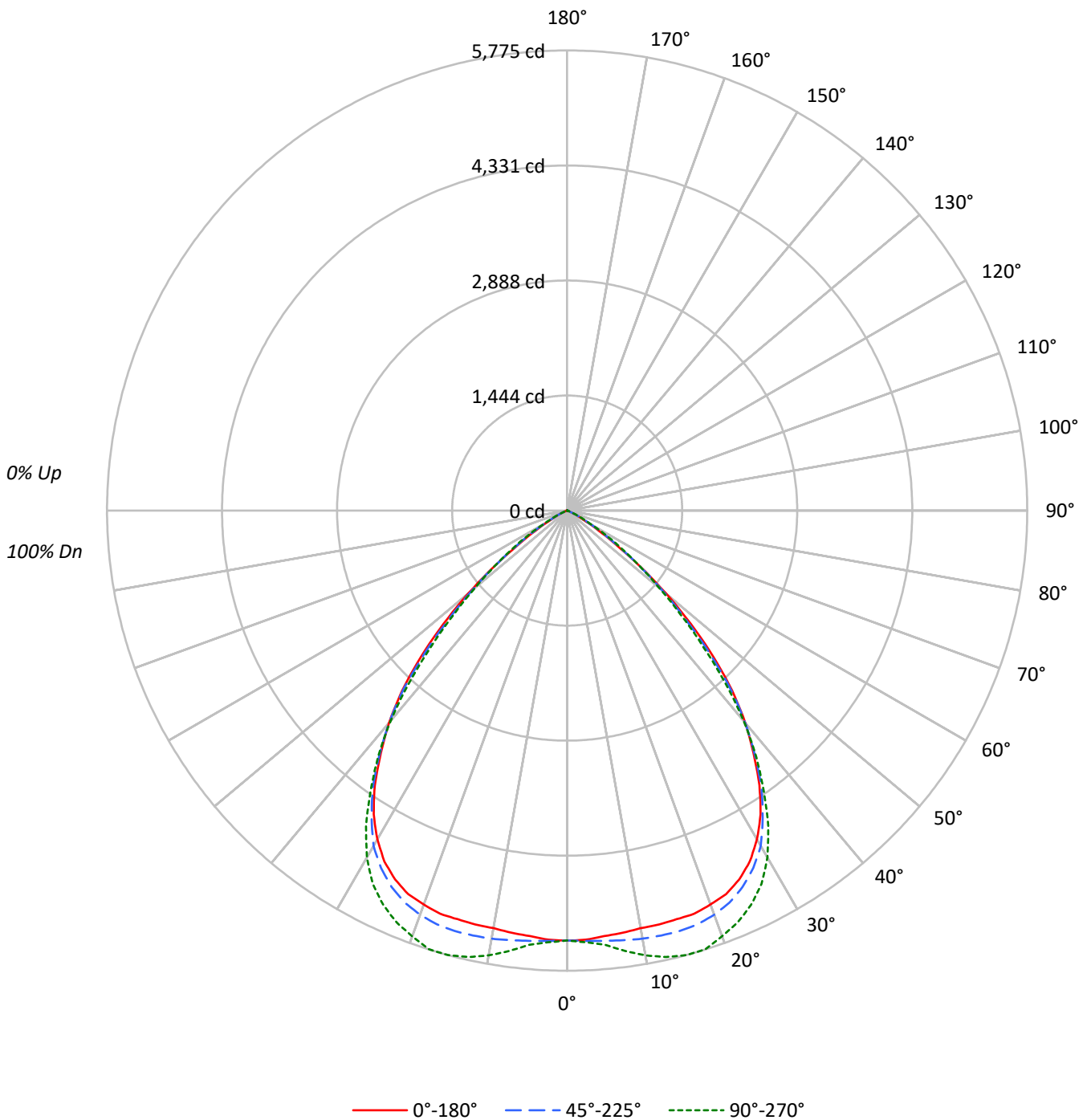
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	99	99	97	96	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	84	82					82			
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73					73			
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66					66			
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59					59			
6	80	69	62	57	78	68	61	56	67	60	56	65	60	55	64	59	55	53					53			
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48					48			
8	70	59	51	46	69	58	51	46	57	51	46	56	50	46	55	49	46	44					44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40					40			
10	62	50	44	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	166393	166393	166393
5°	165951	167781	169353
10°	166611	170813	177495
15°	169498	174389	184374
20°	172635	177108	186539
25°	173782	177303	185789
30°	169677	173059	178931
35°	158384	160014	161923
40°	140060	139931	138868
45°	113257	110035	105194
50°	77807	74814	72381
55°	40047	42601	45611
60°	16682	19741	22153
65°	6479	6859	8092
70°	1713	1623	2191
75°	751	1382	1263
80°	1119	1314	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	519.2	5.2
10°-20°	1554.6	15.6
20°-30°	2405.5	24.2
30°-40°	2634.8	26.5
40°-50°	1927.6	19.4
50°-60°	756.3	7.6
60°-70°	122.4	1.2
70°-80°	11.3	0.1
80°-90°	2.3	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°	4479.3	45.1
0°-40°	7114.1	71.6
0°-60°	9798.0	98.6
0°-90°	9934.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9934.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5396	5396	5396	5396	5396	
5°	5361	5374	5420	5459	5471	511
15°	5309	5344	5463	5666	5775	1504
25°	5108	5123	5211	5369	5460	2342
35°	4207	4215	4251	4291	4301	2605
45°	2597	2593	2523	2446	2412	1978
55°	745	761	792	821	848	733
65°	89	87	94	104	111	108
75°	6	10	12	8	11	11
85°	0	0	0	0	0	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5396.0	5396.0	5396.0	5396.0	5396.0
2.5°	5390.8	5393.9	5404.5	5415.1	5421.4
5°	5361.2	5373.9	5420.3	5459.4	5471.1
7.5°	5343.2	5364.3	5437.2	5535.5	5573.5
10°	5321.0	5351.7	5455.2	5594.7	5668.6
12.5°	5322.1	5351.7	5461.6	5643.3	5738.4
15°	5309.4	5344.3	5462.6	5665.5	5775.4
17.5°	5306.2	5323.1	5443.6	5649.6	5771.1
20°	5260.8	5284.0	5397.1	5579.9	5684.5
22.5°	5211.1	5221.7	5325.2	5504.9	5593.6
25°	5107.6	5123.4	5211.1	5368.6	5460.5
27.5°	4964.9	4968.1	5056.9	5202.7	5283.0
30°	4765.3	4781.1	4860.3	4968.1	5025.2
32.5°	4518.0	4515.9	4567.7	4661.7	4698.7
35°	4207.4	4214.8	4250.7	4290.8	4301.4
37.5°	3842.8	3852.4	3876.7	3890.4	3899.9
40°	3479.4	3479.4	3476.2	3461.4	3449.8
42.5°	3065.2	3051.5	3035.6	2970.1	2941.6
45°	2597.1	2592.9	2523.2	2446.0	2412.2
47.5°	2104.7	2081.5	2008.6	1946.3	1932.5
50°	1621.9	1597.6	1559.5	1528.9	1508.8
52.5°	1155.9	1138.0	1153.8	1153.8	1151.7
55°	744.9	760.7	792.4	821.0	848.4
57.5°	472.3	493.4	542.0	579.0	588.5
60°	270.5	286.3	320.1	352.9	359.2
62.5°	170.1	171.2	193.4	212.4	224.0
65°	88.8	86.6	94.0	103.5	110.9
67.5°	37.0	37.0	44.4	43.3	54.9
70°	19.0	15.8	18.0	21.1	24.3
72.5°	13.7	10.6	14.8	19.0	8.5
75°	6.3	9.5	11.6	8.5	10.6
77.5°	8.5	8.5	6.3	10.6	2.1
80°	6.3	4.2	7.4	3.2	0.0
82.5°	1.1	2.1	1.1	1.1	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	7.4	3.2	5.3	4.2	6.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)