

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: P247366

Luminaire Tested: **LSR8B80D010 EC8B80940 8LBS0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247366
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-84)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B80D010 EC8B80940 8LBS0WMH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7986.0 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.2 / 1.23
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

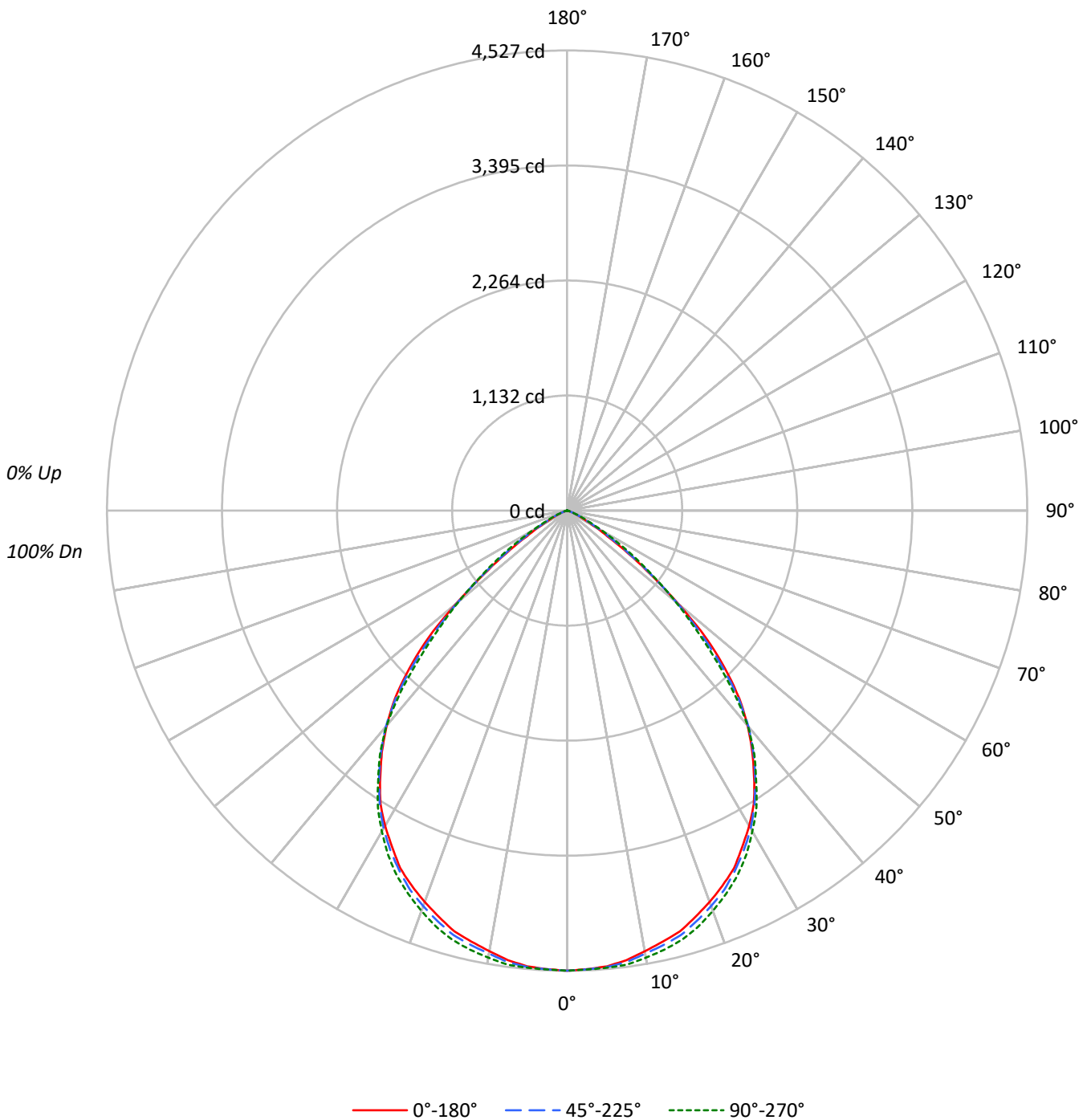
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	102	100	98	99	97	95	95	94	92	91					91			
2	105	99	94	89	102	97	92	88	94	90	86	90	87	85	88	85	83	81					81			
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72					72			
4	91	81	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64					64			
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58					58			
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52					52			
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47					47			
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	44	43					43			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39					39			
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	139584	139584	139584
5°	139290	139510	139758
10°	137804	138612	139839
15°	136830	138024	139502
20°	134454	135855	137522
25°	132133	132980	134831
30°	127557	128572	129779
35°	120710	121444	122084
40°	111149	111689	111399
45°	95827	93302	89573
50°	68409	67383	66572
55°	39267	41611	45063
60°	18625	21807	25212
65°	8770	10595	12156
70°	4093	4580	5220
75°	1906	2764	3181
80°	1580	1421	2220
85°	637	1592	955



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	427.7	5.4
10°-20°	1217.0	15.2
20°-30°	1798.0	22.5
30°-40°	2009.1	25.2
40°-50°	1622.0	20.3
50°-60°	721.5	9.0
60°-70°	162.5	2.0
70°-80°	25.1	0.3
80°-90°	3.0	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°	3442.8	43.1
0°-40°	5451.9	68.3
0°-60°	7795.4	97.6
0°-90°	7986.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7986.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4527	4527	4527	4527	4527	
5°	4500	4499	4507	4508	4515	426
15°	4286	4289	4324	4356	4370	1205
25°	3884	3884	3908	3940	3963	1780
35°	3207	3205	3226	3230	3243	1999
45°	2197	2180	2140	2064	2054	1661
55°	730	741	774	814	838	687
65°	120	135	145	158	167	140
75°	16	22	23	22	27	21
85°	2	3	4	10	3	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4526.6	4526.6	4526.6	4526.6	4526.6
2.5°	4515.0	4512.3	4516.8	4514.1	4518.6
5°	4499.9	4499.0	4507.0	4507.9	4515.0
7.5°	4460.7	4461.6	4478.5	4491.0	4505.2
10°	4401.0	4404.6	4426.8	4454.4	4466.0
12.5°	4344.0	4348.4	4376.9	4415.2	4424.2
15°	4286.1	4288.8	4323.5	4355.6	4369.8
17.5°	4191.7	4209.5	4236.2	4272.7	4291.4
20°	4097.3	4109.7	4140.0	4180.1	4190.8
22.5°	3993.9	4007.3	4037.6	4070.5	4082.1
25°	3883.5	3883.5	3908.4	3940.5	3962.8
27.5°	3729.4	3748.1	3765.9	3794.4	3816.7
30°	3582.4	3589.6	3610.9	3634.1	3644.8
32.5°	3419.4	3420.3	3430.1	3456.0	3465.8
35°	3206.6	3204.8	3226.1	3229.7	3243.1
37.5°	2993.7	3002.6	3010.6	3023.1	3024.0
40°	2761.2	2765.7	2774.6	2761.2	2767.4
42.5°	2508.2	2502.0	2485.1	2445.0	2428.1
45°	2197.4	2180.5	2139.5	2063.8	2054.0
47.5°	1854.5	1812.6	1762.7	1706.6	1695.9
50°	1426.0	1429.6	1404.6	1385.9	1387.7
52.5°	1039.5	1051.9	1058.2	1076.0	1085.8
55°	730.4	741.1	774.0	814.1	838.2
57.5°	473.0	493.5	536.2	581.6	598.6
60°	302.0	315.3	353.6	386.6	408.8
62.5°	197.7	202.2	223.6	253.9	254.7
65°	120.2	135.4	145.2	157.7	166.6
67.5°	78.4	78.4	87.3	98.9	101.5
70°	45.4	46.3	50.8	55.2	57.9
72.5°	24.9	27.6	30.3	34.7	39.2
75°	16.0	22.3	23.2	22.3	26.7
77.5°	10.7	10.7	8.9	15.1	16.0
80°	8.9	6.2	8.0	11.6	12.5
82.5°	0.0	0.9	0.9	1.8	0.0
85°	1.8	2.7	4.5	9.8	2.7
87.5°	0.0	2.7	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)