

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: P247367

Luminaire Tested: **LSR8B90D010 EC8B90940 8LBS0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247367  
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: LSR8B90D010 EC8B90940 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: 8994.0 lumens  
Efficiency: N/A  
Efficacy: 104.5 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

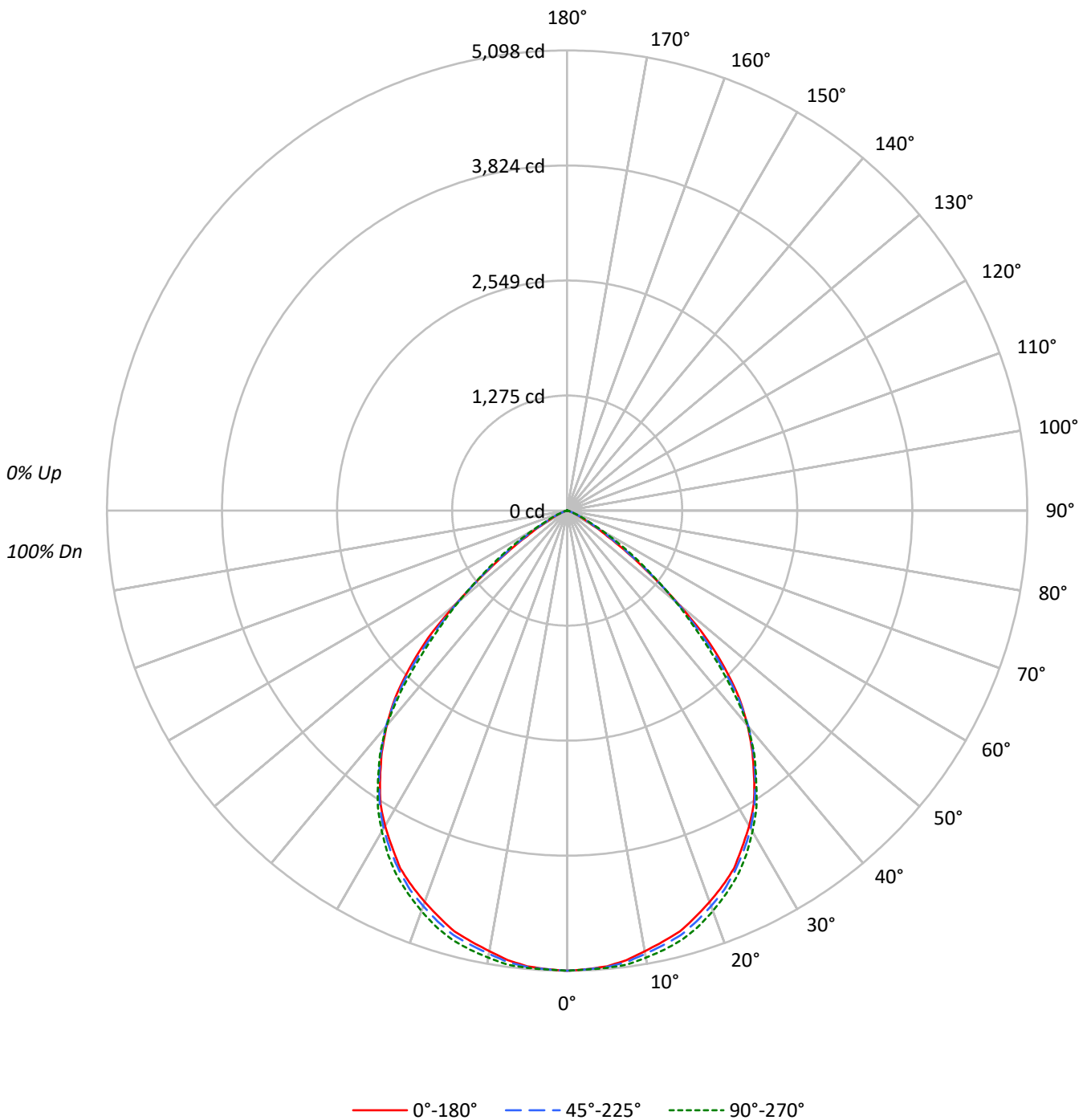
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	157200	157200	157200
5°	156869	157120	157399
10°	155198	156109	157490
15°	154101	155445	157111
20°	151423	153005	154882
25°	148811	149767	151850
30°	143659	144802	146158
35°	135944	136776	137492
40°	125178	125786	125459
45°	107920	105076	100877
50°	77044	75888	74977
55°	44224	46864	50751
60°	20975	24558	28394
65°	9879	11930	13688
70°	4616	5157	5878
75°	2156	3110	3586
80°	1776	1598	2486
85°	708	1769	1061



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	481.7	5.4
10°-20°	1370.7	15.2
20°-30°	2025.0	22.5
30°-40°	2262.7	25.2
40°-50°	1826.8	20.3
50°-60°	812.5	9.0
60°-70°	183.0	2.0
70°-80°	28.3	0.3
80°-90°	3.3	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°	3877.3	43.1
0°-40°	6140.0	68.3
0°-60°	8779.3	97.6
0°-90°	8994.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8994.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5098	5098	5098	5098	5098	
5°	5068	5067	5076	5077	5085	480
15°	4827	4830	4869	4905	4921	1358
25°	4374	4374	4402	4438	4463	2005
35°	3611	3609	3633	3637	3652	2251
45°	2475	2456	2410	2324	2313	1871
55°	823	835	872	917	944	774
65°	135	152	164	178	188	158
75°	18	25	26	25	30	23
85°	2	3	5	11	3	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5097.9	5097.9	5097.9	5097.9	5097.9
2.5°	5084.9	5081.9	5086.9	5083.9	5088.9
5°	5067.8	5066.8	5075.9	5076.9	5084.9
7.5°	5023.7	5024.7	5043.8	5057.8	5073.9
10°	4956.5	4960.5	4985.6	5016.7	5029.7
12.5°	4892.3	4897.3	4929.4	4972.5	4982.6
15°	4827.1	4830.1	4869.2	4905.3	4921.4
17.5°	4720.8	4740.8	4770.9	4812.0	4833.1
20°	4614.4	4628.5	4662.6	4707.7	4719.8
22.5°	4498.1	4513.1	4547.2	4584.3	4597.4
25°	4373.7	4373.7	4401.8	4437.9	4463.0
27.5°	4200.1	4221.2	4241.3	4273.4	4298.4
30°	4034.6	4042.6	4066.7	4092.8	4104.8
32.5°	3851.0	3852.0	3863.1	3892.2	3903.2
35°	3611.3	3609.3	3633.4	3637.4	3652.4
37.5°	3371.5	3381.6	3390.6	3404.6	3405.6
40°	3109.7	3114.7	3124.8	3109.7	3116.7
42.5°	2824.8	2817.8	2798.7	2753.6	2734.5
45°	2474.7	2455.7	2409.5	2324.3	2313.2
47.5°	2088.5	2041.4	1985.2	1922.0	1910.0
50°	1606.0	1610.0	1581.9	1560.9	1562.9
52.5°	1170.7	1184.7	1191.7	1211.8	1222.8
55°	822.6	834.6	871.7	916.9	944.0
57.5°	532.7	555.7	603.9	655.0	674.1
60°	340.1	355.1	398.2	435.4	460.4
62.5°	222.7	227.7	251.8	285.9	286.9
65°	135.4	152.5	163.5	177.6	187.6
67.5°	88.3	88.3	98.3	111.3	114.4
70°	51.2	52.2	57.2	62.2	65.2
72.5°	28.1	31.1	34.1	39.1	44.1
75°	18.1	25.1	26.1	25.1	30.1
77.5°	12.0	12.0	10.0	17.1	18.1
80°	10.0	7.0	9.0	13.0	14.0
82.5°	0.0	1.0	1.0	2.0	0.0
85°	2.0	3.0	5.0	11.0	3.0
87.5°	0.0	3.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)