

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: P247539

Luminaire Tested: **LSR8B90D010 EC8B90840 8LBS0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247539  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-86)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B90D010 EC8B90840 8LBS0GPH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 4000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9352.0 lumens  
Efficiency: N/A  
Efficacy: 108.6 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.19 / 1.23  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

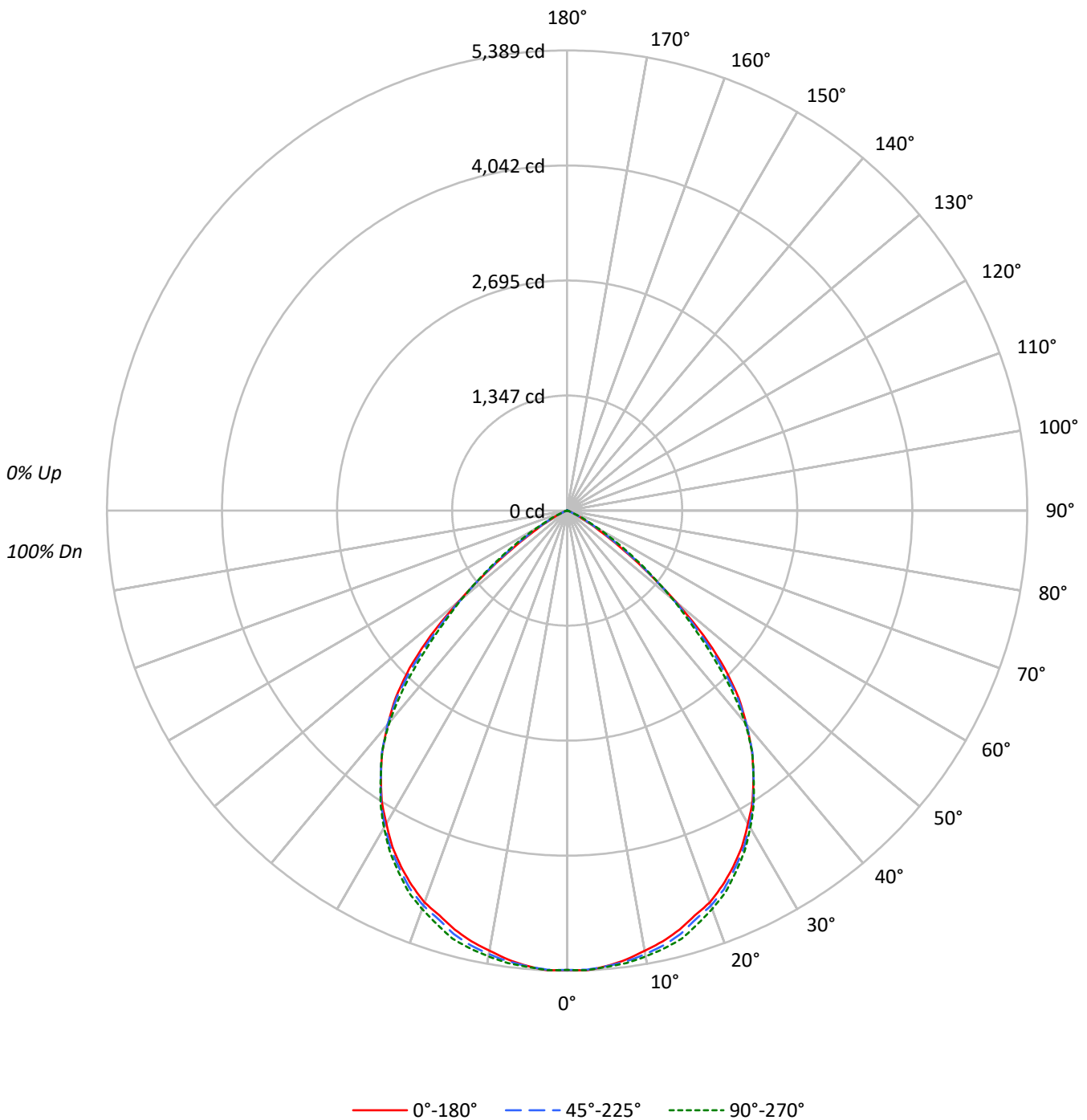
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48					48			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43					43			
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39					39			
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36					36			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	165899	165899	165899
5°	165704	165772	166013
10°	163903	165165	166007
15°	162213	163892	165680
20°	160244	161527	162925
25°	156552	157695	158988
30°	150805	151962	152756
35°	143089	143217	143259
40°	131481	131707	130354
45°	113746	109747	104867
50°	79769	78157	77140
55°	43316	46923	49993
60°	19119	23325	26433
65°	7348	9223	11025
70°	3733	3327	4337
75°	1203	2264	2002
80°	994	195	1190
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	508.9	5.4
10°-20°	1445.3	15.5
20°-30°	2131.4	22.8
30°-40°	2372.4	25.4
40°-50°	1909.3	20.4
50°-60°	811.9	8.7
60°-70°	152.2	1.6
70°-80°	18.5	0.2
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°	4085.6	43.7
0°-40°	6457.9	69.1
0°-60°	9179.1	98.2
0°-90°	9352.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9352.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5380	5380	5380	5380	5380	
5°	5353	5354	5355	5364	5363	507
15°	5081	5109	5134	5173	5190	1432
25°	4601	4618	4635	4662	4673	2115
35°	3801	3802	3804	3806	3806	2367
45°	2608	2587	2517	2440	2405	1961
55°	806	824	873	908	930	767
65°	101	112	126	135	151	130
75°	10	12	19	18	17	16
85°	0	0	0	0	0	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5380.0	5380.0	5380.0	5380.0	5380.0
2.5°	5389.0	5392.3	5381.1	5383.4	5386.7
5°	5353.2	5354.3	5355.4	5364.3	5363.2
7.5°	5302.8	5310.6	5324.1	5340.8	5345.3
10°	5234.5	5254.7	5274.8	5295.0	5301.7
12.5°	5167.4	5179.7	5215.5	5235.7	5252.4
15°	5081.2	5109.2	5133.8	5173.0	5189.8
17.5°	4971.6	4991.7	5015.2	5054.4	5077.9
20°	4883.2	4888.8	4922.3	4957.0	4964.9
22.5°	4752.3	4764.6	4799.3	4822.8	4842.9
25°	4601.2	4618.0	4634.8	4661.6	4672.8
27.5°	4435.6	4445.7	4469.2	4488.2	4498.3
30°	4235.3	4257.7	4267.8	4276.7	4290.1
32.5°	4040.6	4047.3	4056.3	4061.9	4068.6
35°	3801.1	3802.3	3804.5	3805.6	3805.6
37.5°	3556.1	3563.9	3561.7	3555.0	3558.3
40°	3266.3	3279.7	3271.9	3251.7	3238.3
42.5°	2974.2	2967.5	2940.7	2880.2	2852.3
45°	2608.3	2587.1	2516.6	2440.5	2404.7
47.5°	2169.7	2122.7	2063.4	2004.1	1980.6
50°	1662.8	1656.1	1629.2	1605.7	1608.0
52.5°	1191.7	1208.5	1214.1	1236.5	1247.7
55°	805.7	823.6	872.8	907.5	929.9
57.5°	490.1	524.8	577.4	634.5	663.5
60°	310.0	330.1	378.2	415.1	428.6
62.5°	193.6	194.7	218.2	247.3	259.6
65°	100.7	111.9	126.4	135.4	151.1
67.5°	62.7	62.7	61.5	75.0	83.9
70°	41.4	35.8	36.9	44.8	48.1
72.5°	14.5	24.6	22.4	22.4	15.7
75°	10.1	12.3	19.0	17.9	16.8
77.5°	13.4	12.3	9.0	7.8	15.7
80°	5.6	4.5	1.1	6.7	6.7
82.5°	5.6	2.2	6.7	9.0	5.6
85°	0.0	0.0	0.0	0.0	0.0
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)