

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: NEO-RAY

Report Number: P242766

Luminaire Tested: **S125DR-S375D927-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P242766  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S125DR-S375D927-X4F0-XX-UDD-F-W  
Description: DEFINE 5 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER  
STANDARD LIGHT ENGINE  
Light Source: (92) 2700K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1137.9 lumens  
Efficiency: N/A  
Efficacy: 98.1 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3  
Luminous Opening: Rectangular (W 0.39' x L: 3.88' x H: 0')  
CIE Type: Direct

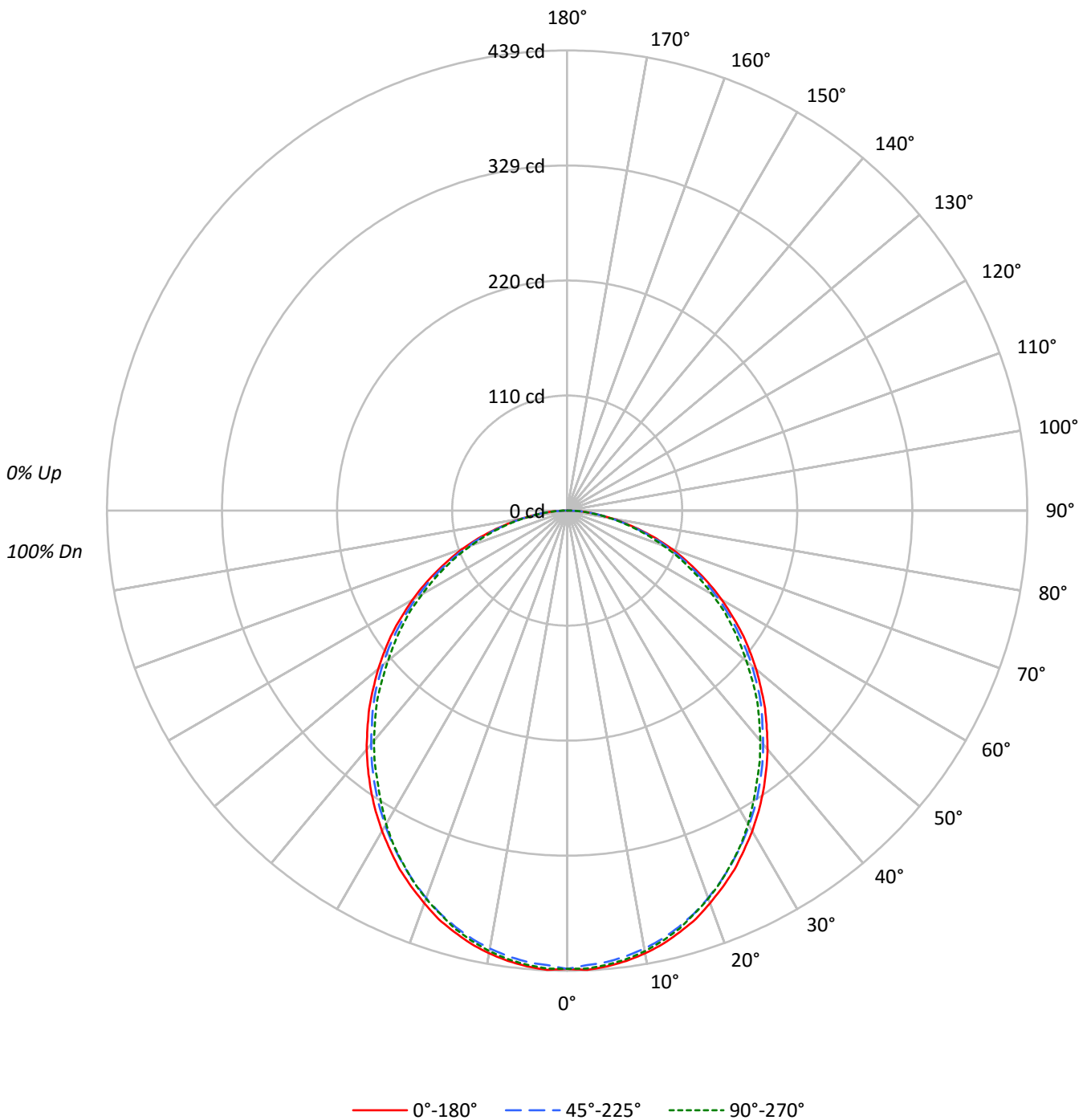
Input Watts (W): 11.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

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

	0°	45°	90°
0°	3107	3107	3107
5°	3114	3085	3104
10°	3095	3063	3080
15°	3062	3026	3039
20°	3014	2975	2980
25°	2962	2913	2910
30°	2898	2847	2833
35°	2830	2776	2737
40°	2760	2699	2660
45°	2684	2628	2576
50°	2601	2543	2467
55°	2520	2447	2379
60°	2424	2350	2267
65°	2309	2233	2158
70°	2199	2099	2026
75°	2005	1939	1870
80°	1785	1756	1715
85°	1549	1582	1492



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.3	3.6
10°-20°	116.5	10.2
20°-30°	172.0	15.1
30°-40°	200.7	17.6
40°-50°	201.6	17.7
50°-60°	177.0	15.6
60°-70°	131.8	11.6
70°-80°	75.3	6.6
80°-90°	21.7	1.9
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°	329.8	29.0
0°-40°	530.5	46.6
0°-60°	909.1	79.9
0°-90°	1137.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1137.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	437	437	437	437	437	
5°	436	436	432	436	435	41
15°	416	415	411	413	413	117
25°	378	376	372	372	371	174
35°	326	325	320	318	315	204
45°	267	266	262	257	256	206
55°	203	202	198	194	192	182
65°	137	137	133	130	128	136
75°	73	72	71	70	68	78
85°	19	19	19	19	18	22
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	437.2	437.2	437.2	437.2	437.2
2.5°	438.6	437.5	434.1	437.5	437.2
5°	436.5	435.8	432.4	435.5	435.1
7.5°	433.4	432.7	428.9	432.0	431.7
10°	428.9	428.2	424.4	427.2	426.8
12.5°	423.4	422.0	418.5	420.6	420.6
15°	416.1	415.1	411.3	413.0	413.0
17.5°	408.5	406.8	403.0	405.0	403.3
20°	398.5	397.8	393.3	395.7	394.0
22.5°	388.4	387.0	382.9	384.3	383.2
25°	377.7	376.0	371.5	372.2	371.1
27.5°	365.3	364.2	359.7	360.1	359.0
30°	353.1	352.1	346.9	346.2	345.2
32.5°	340.0	338.3	333.8	332.4	330.3
35°	326.2	324.8	319.9	318.2	315.4
37.5°	312.0	310.3	305.8	303.3	301.6
40°	297.5	295.7	290.9	287.8	286.7
42.5°	281.9	280.5	275.7	272.9	271.2
45°	267.0	265.6	261.5	257.3	256.3
47.5°	250.8	251.1	245.9	241.8	239.4
50°	235.2	234.2	230.0	225.5	223.1
52.5°	219.3	218.6	214.1	210.3	207.5
55°	203.4	202.3	197.5	194.4	192.0
57.5°	186.4	186.1	181.9	177.8	176.7
60°	170.5	169.1	165.3	161.9	159.5
62.5°	153.9	152.9	149.8	146.0	144.2
65°	137.3	136.6	132.8	129.7	128.3
67.5°	121.1	119.7	116.9	114.1	113.5
70°	105.8	104.1	101.0	98.9	97.5
72.5°	89.2	88.2	86.5	84.1	82.7
75°	73.0	72.3	70.6	69.5	68.1
77.5°	57.8	57.4	56.4	55.7	54.6
80°	43.6	43.6	42.9	42.5	41.9
82.5°	31.1	30.4	30.4	29.7	29.7
85°	19.0	19.4	19.4	19.0	18.3
87.5°	9.3	9.3	9.0	9.0	8.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)