

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: P243655

Luminaire Tested: **S125DR-H375D940-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P243655  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-51)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S125DR-H375D940-X4F0-XX-UDD-F-W  
Description: DEFINE 5 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER.  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: (184) 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

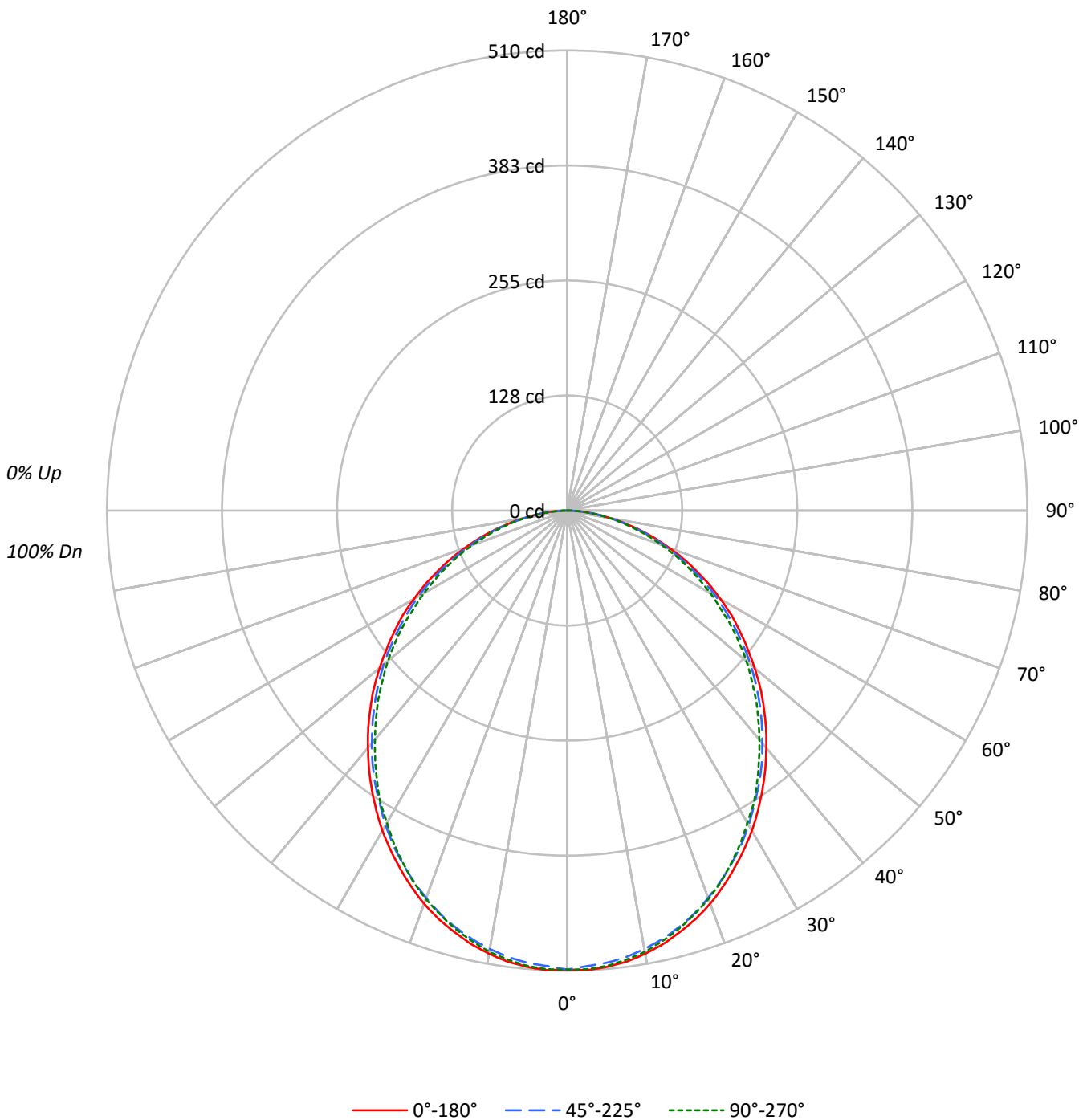
Lumens per Lamp: N/A  
Luminaire Lumens: 1313.3 lumens  
Efficiency: N/A  
Efficacy: 117.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3  
Luminous Opening: Rectangular (W 0.39' x L: 3.88' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 11.2  
Input Voltage (V): 120  
Input Current (A<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	95	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	73	70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25

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

	0°	45°	90°
0°	3616	3616	3616
5°	3622	3590	3614
10°	3599	3562	3583
15°	3557	3519	3530
20°	3506	3456	3464
25°	3434	3384	3378
30°	3361	3302	3278
35°	3274	3216	3187
40°	3186	3124	3076
45°	3099	3031	2975
50°	2996	2935	2868
55°	2896	2817	2743
60°	2786	2706	2611
65°	2655	2561	2474
70°	2490	2396	2319
75°	2296	2224	2123
80°	2001	1985	1940
85°	1737	1737	1647



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.0	3.7
10°-20°	135.5	10.3
20°-30°	199.7	15.2
30°-40°	232.5	17.7
40°-50°	233.0	17.7
50°-60°	203.7	15.5
60°-70°	151.2	11.5
70°-80°	85.7	6.5
80°-90°	24.0	1.8
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°	383.1	29.2
0°-40°	615.7	46.9
0°-60°	1052.4	80.1
0°-90°	1313.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1313.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	509	509	509	509	509	
5°	508	507	503	507	507	48
15°	483	483	478	481	480	136
25°	438	436	432	433	431	202
35°	377	375	371	368	367	236
45°	308	308	302	297	296	238
55°	234	233	227	222	221	209
65°	158	157	152	149	147	157
75°	84	82	81	80	77	89
85°	21	21	21	20	20	25
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	508.8	508.8	508.8	508.8	508.8
2.5°	509.9	509.2	505.4	509.2	508.8
5°	507.7	506.9	503.2	506.9	506.6
7.5°	504.3	503.2	499.1	502.8	502.1
10°	498.7	498.0	493.5	496.5	496.5
12.5°	492.0	490.9	486.4	489.0	488.6
15°	483.4	482.7	478.2	480.8	479.7
17.5°	474.5	472.6	468.5	470.7	469.2
20°	463.6	462.1	456.9	458.8	458.0
22.5°	451.3	449.5	444.6	445.7	445.3
25°	437.9	436.4	431.5	432.7	430.8
27.5°	424.1	422.2	417.7	417.7	415.9
30°	409.5	407.6	402.4	402.4	399.4
32.5°	393.8	392.3	386.0	385.6	384.9
35°	377.4	375.2	370.7	368.4	367.3
37.5°	361.0	359.1	354.3	351.3	349.4
40°	343.4	342.3	336.7	334.1	331.5
42.5°	326.3	325.1	319.2	314.7	313.6
45°	308.3	307.6	301.6	297.1	296.0
47.5°	290.4	289.7	283.7	278.9	277.0
50°	271.0	271.0	265.4	260.6	259.4
52.5°	252.3	252.0	246.4	241.5	240.4
55°	233.7	233.3	227.3	222.5	221.4
57.5°	216.1	213.9	208.7	204.9	201.2
60°	196.0	194.9	190.4	185.5	183.7
62.5°	177.3	175.8	171.3	167.2	164.6
65°	157.9	156.8	152.3	148.9	147.1
67.5°	139.6	138.1	133.6	131.0	129.5
70°	119.8	118.7	115.3	112.0	111.6
72.5°	102.3	100.8	98.9	95.9	94.4
75°	83.6	82.1	81.0	79.5	77.3
77.5°	65.7	65.0	64.2	63.1	62.0
80°	48.9	48.9	48.5	47.8	47.4
82.5°	34.7	35.1	34.0	33.2	33.2
85°	21.3	21.3	21.3	20.5	20.2
87.5°	10.5	9.3	9.3	8.6	8.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)