

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: P334365

Luminaire Tested: **S125DS-S375D940-4F0-1E-UDD-F**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P334365  
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: S125DS-S375D940-4F0-1E-UDD-F  
Description: DEFINE 5 DIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER  
PENDANT/SURFACE/WALL MOUNT, 375 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

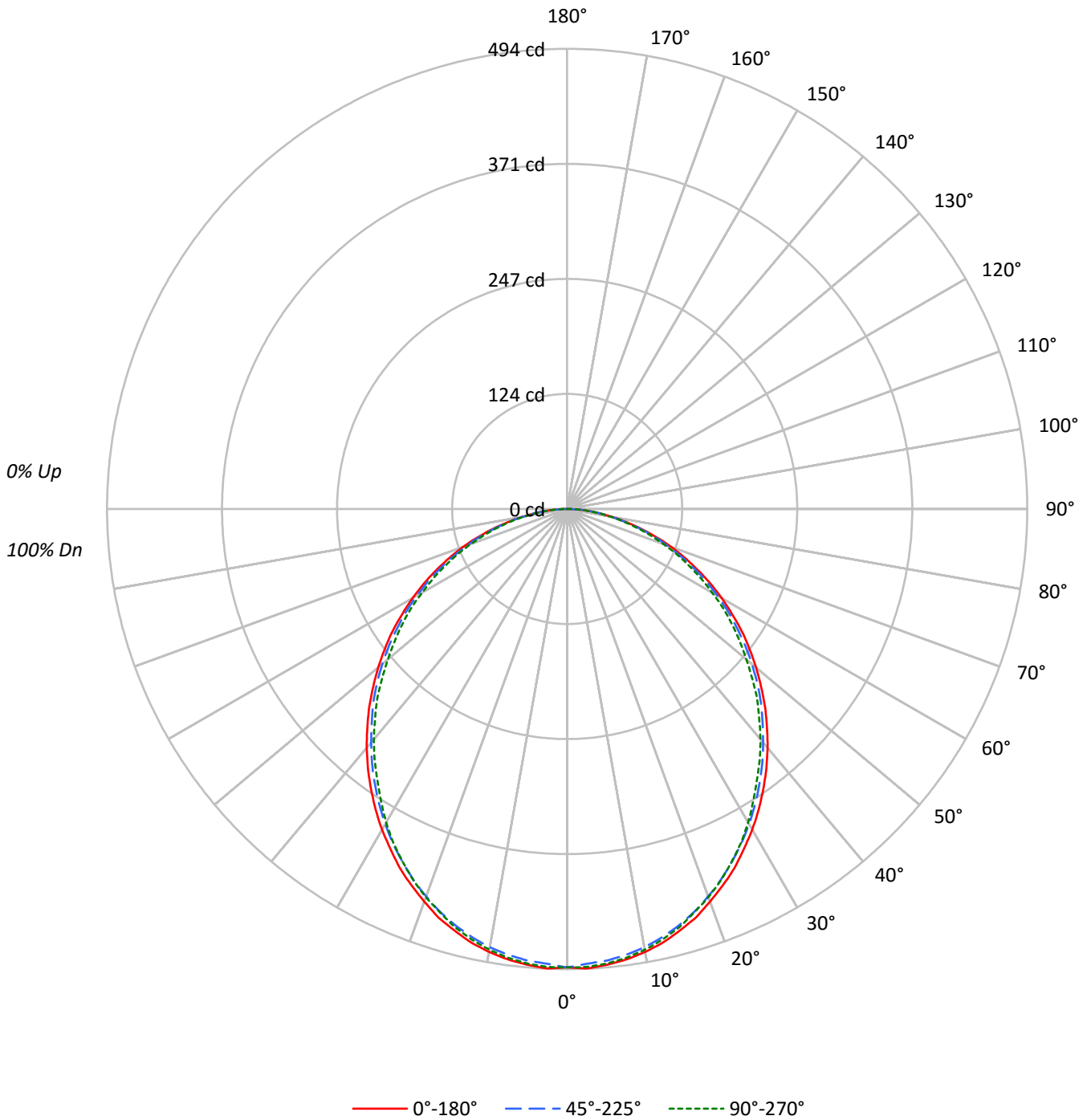
Lumens per Lamp: N/A  
Luminaire Lumens: 1280.9 lumens  
Efficiency: N/A  
Efficacy: 110.4 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3  
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')  
CIE Type: Direct

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°	3178	3178	3178
5°	3185	3155	3175
10°	3166	3133	3150
15°	3132	3095	3108
20°	3082	3043	3048
25°	3030	2980	2977
30°	2964	2912	2898
35°	2894	2839	2800
40°	2823	2760	2721
45°	2746	2688	2635
50°	2661	2601	2523
55°	2577	2503	2433
60°	2479	2404	2319
65°	2363	2285	2207
70°	2249	2147	2073
75°	2051	1981	1914
80°	1826	1796	1752
85°	1586	1615	1526



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.4	3.6
10°-20°	131.2	10.2
20°-30°	193.7	15.1
30°-40°	225.9	17.6
40°-50°	226.9	17.7
50°-60°	199.2	15.6
60°-70°	148.4	11.6
70°-80°	84.8	6.6
80°-90°	24.5	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°	371.3	29.0
0°-40°	597.2	46.6
0°-60°	1023.3	79.9
0°-90°	1280.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1280.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	492	492	492	492	492	
5°	491	491	487	490	490	47
15°	468	467	463	465	465	132
25°	425	423	418	419	418	196
35°	367	366	360	358	355	230
45°	301	299	294	290	288	232
55°	229	228	222	219	216	204
65°	155	154	150	146	144	153
75°	82	81	79	78	77	87
85°	21	22	22	21	21	25
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	492.1	492.1	492.1	492.1	492.1
2.5°	493.7	492.5	488.6	492.5	492.1
5°	491.3	490.6	486.7	490.2	489.8
7.5°	487.8	487.1	482.8	486.3	485.9
10°	482.8	482.0	477.7	480.8	480.4
12.5°	476.6	475.0	471.1	473.4	473.4
15°	468.4	467.2	462.9	464.9	464.9
17.5°	459.8	457.9	453.6	455.9	454.0
20°	448.5	447.7	442.7	445.4	443.5
22.5°	437.2	435.7	431.0	432.6	431.4
25°	425.2	423.2	418.2	418.9	417.8
27.5°	411.1	410.0	404.9	405.3	404.1
30°	397.5	396.3	390.5	389.7	388.6
32.5°	382.7	380.8	375.7	374.2	371.8
35°	367.1	365.6	360.1	358.2	355.1
37.5°	351.2	349.2	344.2	341.5	339.5
40°	334.8	332.9	327.4	323.9	322.8
42.5°	317.3	315.8	310.3	307.2	305.2
45°	300.6	299.0	294.3	289.7	288.5
47.5°	282.3	282.7	276.8	272.1	269.4
50°	264.8	263.6	258.9	253.9	251.1
52.5°	246.8	246.1	241.0	236.7	233.6
55°	228.9	227.8	222.3	218.8	216.1
57.5°	209.9	209.5	204.8	200.1	199.0
60°	191.9	190.4	186.1	182.2	179.5
62.5°	173.3	172.1	168.6	164.3	162.4
65°	154.6	153.8	149.5	146.0	144.4
67.5°	136.3	134.7	131.6	128.5	127.7
70°	119.1	117.2	113.7	111.4	109.8
72.5°	100.5	99.3	97.3	94.6	93.1
75°	82.2	81.4	79.4	78.3	76.7
77.5°	65.0	64.6	63.5	62.7	61.5
80°	49.1	49.1	48.3	47.9	47.1
82.5°	35.0	34.3	34.3	33.5	33.5
85°	21.4	21.8	21.8	21.4	20.6
87.5°	10.5	10.5	10.1	10.1	9.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)