

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: P242785

Luminaire Tested: **S125DR-S375D930-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242785
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-S375D930-X4F0-XX-UDD-F-W
Description: DEFINE 5 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1171.1 lumens
Efficiency: N/A
Efficacy: 101.0 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

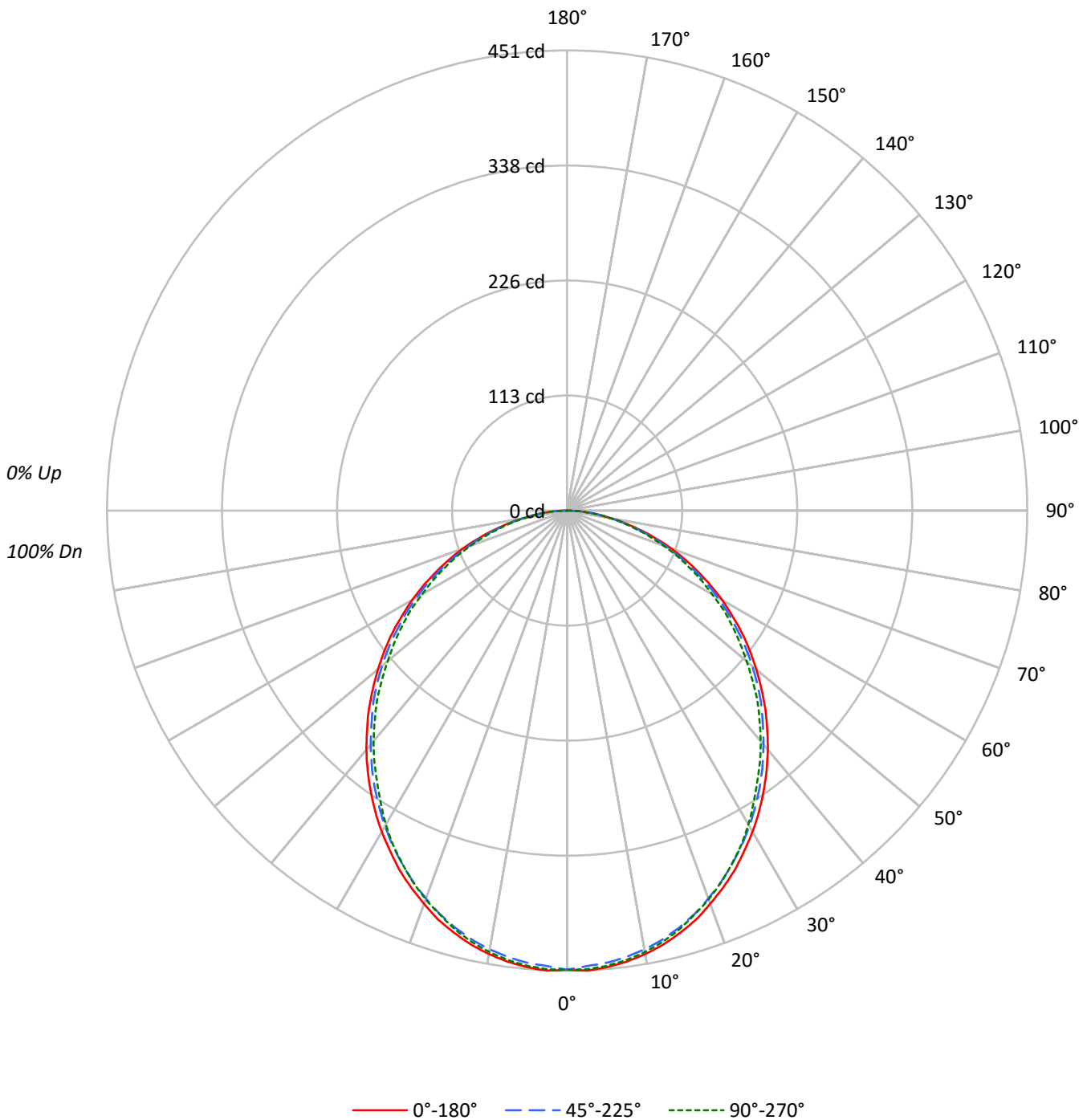
Input Watts (W): 11.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3198	3198	3198
5°	3205	3175	3195
10°	3186	3152	3170
15°	3151	3115	3127
20°	3102	3061	3067
25°	3048	2998	2996
30°	2983	2930	2916
35°	2913	2857	2817
40°	2840	2778	2738
45°	2762	2705	2652
50°	2677	2617	2539
55°	2593	2519	2449
60°	2495	2419	2333
65°	2376	2299	2222
70°	2263	2159	2086
75°	2062	1994	1925
80°	1838	1805	1764
85°	1598	1623	1541



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.5	3.6
10°-20°	119.9	10.2
20°-30°	177.1	15.1
30°-40°	206.6	17.6
40°-50°	207.5	17.7
50°-60°	182.1	15.6
60°-70°	135.6	11.6
70°-80°	77.5	6.6
80°-90°	22.4	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°	339.4	29.0
0°-40°	546.0	46.6
0°-60°	935.6	79.9
0°-90°	1171.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1171.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	450	450	450	450	450	
5°	449	448	445	448	448	43
15°	428	427	423	425	425	121
25°	389	387	382	383	382	179
35°	336	334	329	328	325	210
45°	275	273	269	265	264	212
55°	209	208	203	200	198	187
65°	141	141	137	134	132	140
75°	75	74	73	72	70	80
85°	20	20	20	20	19	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	450.0	450.0	450.0	450.0	450.0
2.5°	451.4	450.3	446.8	450.3	450.0
5°	449.2	448.5	445.0	448.2	447.8
7.5°	446.0	445.3	441.4	444.6	444.3
10°	441.4	440.7	436.8	439.6	439.3
12.5°	435.7	434.3	430.7	432.9	432.9
15°	428.2	427.2	423.3	425.0	425.0
17.5°	420.4	418.6	414.7	416.9	415.1
20°	410.1	409.4	404.7	407.2	405.5
22.5°	399.8	398.3	394.1	395.5	394.4
25°	388.7	386.9	382.3	383.0	382.0
27.5°	375.9	374.8	370.2	370.6	369.5
30°	363.5	362.4	357.0	356.3	355.3
32.5°	349.9	348.1	343.5	342.1	340.0
35°	335.7	334.3	329.3	327.5	324.7
37.5°	321.1	319.3	314.7	312.2	310.4
40°	306.1	304.4	299.4	296.2	295.1
42.5°	290.1	288.7	283.7	280.9	279.1
45°	274.8	273.4	269.1	264.8	263.8
47.5°	258.1	258.4	253.1	248.8	246.3
50°	242.1	241.0	236.7	232.1	229.6
52.5°	225.7	225.0	220.4	216.4	213.6
55°	209.3	208.2	203.3	200.1	197.6
57.5°	191.9	191.5	187.2	183.0	181.9
60°	175.5	174.1	170.2	166.6	164.1
62.5°	158.4	157.3	154.1	150.2	148.4
65°	141.3	140.6	136.7	133.5	132.1
67.5°	124.6	123.2	120.3	117.5	116.8
70°	108.9	107.1	103.9	101.8	100.4
72.5°	91.8	90.8	89.0	86.5	85.1
75°	75.1	74.4	72.6	71.6	70.1
77.5°	59.4	59.1	58.0	57.3	56.2
80°	44.9	44.9	44.1	43.8	43.1
82.5°	32.0	31.3	31.3	30.6	30.6
85°	19.6	19.9	19.9	19.6	18.9
87.5°	9.6	9.6	9.3	9.3	8.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)