

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P243626

Luminaire Tested: S125DRP-H375D927-X4F0-XX-UDD-F-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243626
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
Product Line: NEO-RAY
Catalog Number: S125DRP-H375D927-X4F0-XX-UDD-F-W
Description: DEFINE 5 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

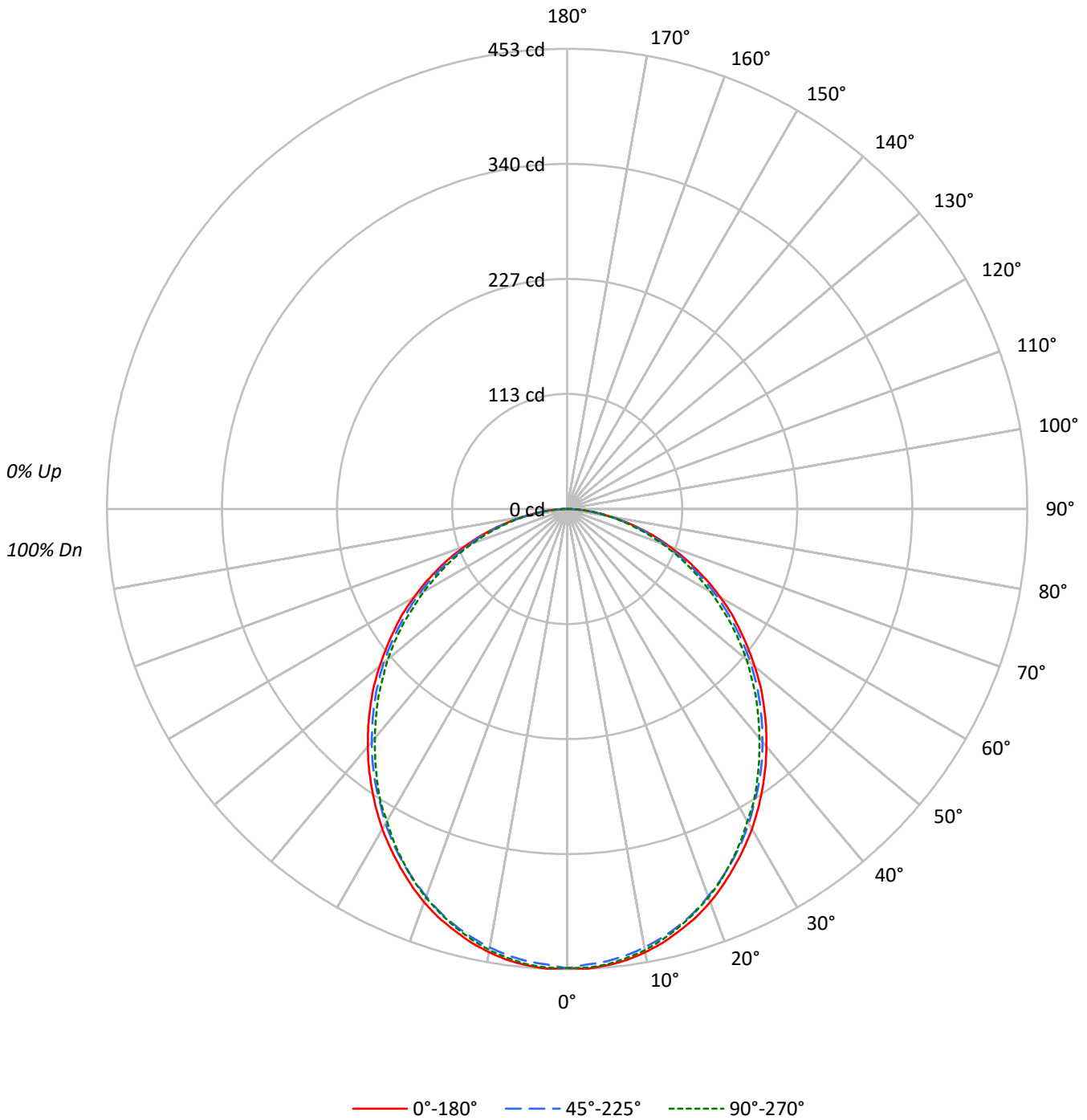
Lumens per Lamp: N/A
Luminaire Lumens: 1166.8 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3
Luminous Opening: Rectangular (W 0.39' x L: 3.88' x H: 0')
CIE Type: Direct

Input Watts (W): 11.2
Input Voltage (V): 120
Input Current (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: 24 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°	3213	3213	3213
5°	3218	3189	3211
10°	3198	3164	3183
15°	3160	3126	3135
20°	3115	3070	3078
25°	3051	3007	3001
30°	2986	2934	2912
35°	2909	2857	2831
40°	2831	2775	2732
45°	2753	2694	2643
50°	2663	2607	2549
55°	2572	2503	2437
60°	2475	2404	2320
65°	2359	2275	2198
70°	2213	2130	2061
75°	2040	1977	1884
80°	1776	1764	1723
85°	1541	1541	1460

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2753 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.6	3.7
10°-20°	120.3	10.3
20°-30°	177.4	15.2
30°-40°	206.6	17.7
40°-50°	207.0	17.7
50°-60°	181.0	15.5
60°-70°	134.3	11.5
70°-80°	76.2	6.5
80°-90°	21.3	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°	340.4	29.2
0°-40°	547.0	46.9
0°-60°	935.0	80.1
0°-90°	1166.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1166.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	452	452	452	452	452	
5°	451	450	447	450	450	43
15°	430	429	425	427	426	121
25°	389	388	383	384	383	179
35°	335	333	329	327	326	210
45°	274	273	268	264	263	211
55°	208	207	202	198	197	186
65°	140	139	135	132	131	139
75°	74	73	72	71	69	79
85°	19	19	19	18	18	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	452.0	452.0	452.0	452.0	452.0
2.5°	453.0	452.3	449.0	452.3	452.0
5°	451.0	450.4	447.0	450.4	450.0
7.5°	448.0	447.0	443.4	446.7	446.0
10°	443.1	442.4	438.4	441.1	441.1
12.5°	437.1	436.1	432.1	434.4	434.1
15°	429.5	428.8	424.8	427.1	426.1
17.5°	421.5	419.8	416.2	418.2	416.9
20°	411.9	410.6	405.9	407.6	406.9
22.5°	400.9	399.3	395.0	396.0	395.6
25°	389.0	387.7	383.4	384.4	382.7
27.5°	376.7	375.1	371.1	371.1	369.4
30°	363.8	362.1	357.5	357.5	354.8
32.5°	349.9	348.5	342.9	342.6	341.9
35°	335.3	333.3	329.3	327.3	326.3
37.5°	320.7	319.0	314.7	312.1	310.4
40°	305.1	304.1	299.1	296.8	294.5
42.5°	289.8	288.9	283.5	279.6	278.6
45°	273.9	273.3	268.0	264.0	263.0
47.5°	258.0	257.3	252.0	247.7	246.1
50°	240.8	240.8	235.8	231.5	230.5
52.5°	224.2	223.9	218.9	214.6	213.6
55°	207.6	207.3	202.0	197.7	196.7
57.5°	192.0	190.0	185.4	182.1	178.8
60°	174.1	173.1	169.1	164.8	163.2
62.5°	157.5	156.2	152.2	148.6	146.3
65°	140.3	139.3	135.3	132.3	130.7
67.5°	124.0	122.7	118.7	116.4	115.1
70°	106.5	105.5	102.5	99.5	99.2
72.5°	90.9	89.5	87.9	85.2	83.9
75°	74.3	73.0	72.0	70.6	68.6
77.5°	58.4	57.7	57.0	56.0	55.1
80°	43.4	43.4	43.1	42.4	42.1
82.5°	30.8	31.2	30.2	29.5	29.5
85°	18.9	18.9	18.9	18.2	17.9
87.5°	9.3	8.3	8.3	7.6	7.6
90°	0.0	0.0	0.0	0.0	0.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	15.36	16.98	15.73	17.29	17.60	15.03	16.64	15.39	16.96	17.27
	3H	17.12	18.58	17.50	18.91	19.27	16.74	18.20	17.12	18.53	18.89
	4H	17.77	19.14	18.17	19.49	19.87	17.38	18.75	17.78	19.10	19.47
	6H	18.23	19.50	18.64	19.87	20.26	17.85	19.13	18.26	19.49	19.88
	8H	18.38	19.60	18.81	19.98	20.38	18.01	19.22	18.43	19.61	20.01
	12H	18.48	19.65	18.91	20.03	20.46	18.11	19.27	18.54	19.65	20.08
4H	2H	15.93	17.31	16.33	17.66	18.03	15.67	17.04	16.07	17.39	17.77
	3H	17.92	19.07	18.33	19.46	19.86	17.60	18.75	18.01	19.15	19.55
	4H	18.69	19.73	19.12	20.15	20.58	18.37	19.41	18.80	19.82	20.26
	6H	19.28	20.19	19.74	20.63	21.09	18.97	19.88	19.42	20.32	20.77
	8H	19.48	20.33	19.94	20.77	21.24	19.17	20.02	19.63	20.46	20.92
	12H	19.63	20.39	20.11	20.87	21.33	19.31	20.07	19.79	20.55	21.02
8H	4H	18.98	19.83	19.44	20.27	20.73	18.69	19.54	19.15	19.98	20.45
	6H	19.68	20.39	20.18	20.88	21.35	19.41	20.12	19.90	20.60	21.08
	8H	19.96	20.59	20.47	21.10	21.58	19.68	20.31	20.19	20.82	21.31
	12H	20.18	20.74	20.68	21.23	21.79	19.90	20.46	20.40	20.95	21.51
12H	4H	19.00	19.77	19.48	20.24	20.71	18.72	19.49	19.20	19.96	20.43
	6H	19.73	20.37	20.24	20.87	21.36	19.47	20.10	19.98	20.61	21.09
	8H	20.06	20.62	20.57	21.11	21.68	19.79	20.36	20.30	20.85	21.41