

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1011858

Luminaire Tested: S123DIP-B560D805UB27-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011858
REPORT IS A COMBINATION OF REPORTS P990164 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B560D805UB27-4F0-XX-W2A-D4
Description: Define 3 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

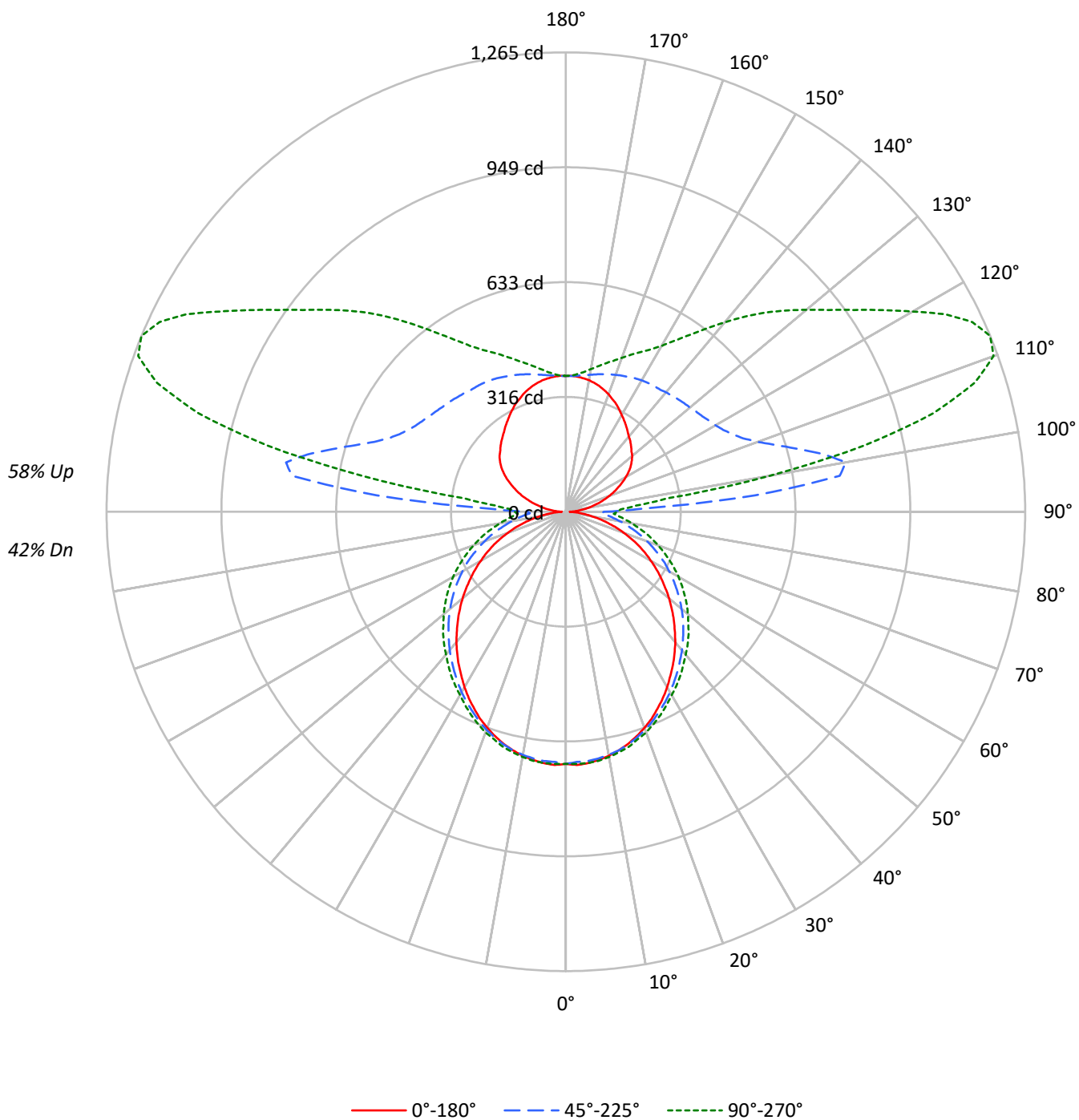
Lumens per Lamp: N/A
Luminaire Lumens: 5154.5 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 45.1
Input Voltage (V):
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	105	105	105	105	96	96	96	96	79	79	79	63	63	63	48	48	48
1	95	90	86	82	86	82	79	76	68	65	63	54	52	50	41	40	39
2	86	78	72	67	78	72	66	61	59	55	51	47	44	41	36	34	32
3	78	69	61	55	71	63	56	51	51	47	43	41	38	35	31	29	27
4	72	60	52	46	65	55	48	43	46	40	36	36	33	29	28	25	23
5	66	54	45	39	59	49	42	36	41	35	31	33	29	25	25	22	20
6	60	48	40	34	55	44	37	32	36	31	27	29	25	22	23	20	17
7	56	43	35	30	50	40	33	28	33	27	23	27	22	19	21	18	15
8	52	39	31	26	47	36	29	24	30	25	21	24	20	17	19	16	14
9	48	36	28	23	44	33	26	22	27	22	18	22	18	15	17	15	12
10	45	33	25	21	41	30	24	19	25	20	17	21	17	14	16	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7472	7472	7472
5°	7492	7253	7247
10°	7423	7056	7003
15°	7325	6840	6743
20°	7184	6598	6464
25°	7013	6325	6177
30°	6838	6078	5887
35°	6641	5820	5651
40°	6452	5584	5402
45°	6243	5355	5196
50°	6038	5128	4974
55°	5809	4895	4769
60°	5586	4657	4558
65°	5357	4403	4313
70°	5009	4120	4059
75°	4572	3795	3797
80°	4066	3466	3499
85°	3564	3200	3285

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6243 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.9	1.3
10°-20°	187.7	3.6
20°-30°	280.7	5.4
30°-40°	335.2	6.5
40°-50°	350.7	6.8
50°-60°	329.1	6.4
60°-70°	274.9	5.3
70°-80°	196.5	3.8
80°-90°	119.0	2.3
90°-100°	286.0	5.5
100°-110°	648.0	12.6
110°-120°	615.3	11.9
120°-130°	481.7	9.3
130°-140°	373.3	7.2
140°-150°	273.5	5.3
150°-160°	189.5	3.7
160°-170°	111.3	2.2
170°-180°	36.2	0.7
0°-30°	534.3	10.4
0°-40°	869.5	16.9
0°-60°	1549.3	30.1
0°-90°	2139.7	41.5
90°-120°	1549.2	30.1
90°-150°	2677.8	52.0
90°-180°	3015.0	58.5
0°-180°	5154.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	694	694	694	694	694	
5°	695	693	689	695	694	66
15°	662	664	663	671	670	186
25°	597	605	607	617	617	275
35°	514	526	536	548	550	322
45°	420	439	458	472	478	324
55°	321	346	373	393	399	287
65°	222	251	284	307	315	219
75°	120	156	194	218	228	128
85°	37	75	115	141	148	38
90°	11	56	104	132	141	9
95°	34	121	524	229	194	34
105°	94	154	665	1142	1048	99
115°	159	206	506	1079	1235	158
125°	218	257	459	827	969	194
135°	254	302	438	671	775	196
145°	289	330	423	538	594	181
155°	328	354	410	466	485	151
165°	358	368	392	416	423	101
175°	373	374	376	382	381	35
180°	374	374	374	374	374	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	694.2	694.2	694.2	694.2	694.2
2.5°	698.0	695.7	689.6	695.7	694.9
5°	694.9	693.4	688.9	694.9	694.2
7.5°	689.6	689.6	685.1	692.7	691.9
10°	682.1	683.6	679.8	687.4	685.9
12.5°	673.0	675.3	673.0	679.8	678.3
15°	661.7	663.9	663.2	670.7	670.0
17.5°	648.1	652.6	651.8	658.6	657.1
20°	632.9	637.5	639.0	645.8	646.5
22.5°	617.1	621.6	623.9	632.9	632.2
25°	597.4	605.0	607.2	617.1	617.1
27.5°	578.5	586.8	591.3	599.7	600.4
30°	558.1	567.9	573.9	583.0	583.0
32.5°	535.4	546.7	555.0	564.9	567.1
35°	514.2	526.3	536.1	547.5	550.5
37.5°	491.5	505.1	516.5	529.3	531.6
40°	468.8	482.4	497.6	510.4	513.5
42.5°	443.9	461.3	477.2	491.5	496.1
45°	420.4	438.6	457.5	471.9	477.9
47.5°	395.5	415.9	437.1	453.0	457.5
50°	371.3	392.5	415.9	433.3	438.6
52.5°	345.6	368.3	394.7	412.9	419.7
55°	320.6	345.6	372.8	393.2	399.3
57.5°	296.4	322.1	351.6	372.0	378.9
60°	270.7	297.9	328.9	350.1	358.4
62.5°	246.5	274.5	307.8	328.9	336.5
65°	221.6	251.1	284.3	307.0	314.6
67.5°	196.6	227.6	260.9	285.8	291.9
70°	170.1	202.7	239.0	263.2	270.7
72.5°	145.9	178.5	216.3	241.2	248.8
75°	120.2	155.8	193.6	218.5	227.6
77.5°	98.3	133.8	171.7	198.1	204.9
80°	74.9	111.9	151.2	176.9	184.5
82.5°	54.4	92.3	132.3	158.0	165.6
85°	37.1	74.9	114.9	140.7	148.2
87.5°	22.7	60.5	99.1	124.8	132.3
90°	11.3	56.0	104.3	132.4	140.7
92.5°	20.5	87.0	220.2	152.4	151.3
95°	34.0	121.4	523.8	229.2	193.7
97.5°	48.5	130.6	760.7	422.2	280.8
100°	62.8	136.6	782.7	776.6	569.9
102.5°	77.9	144.1	729.0	1004.8	841.7
105°	93.8	154.0	665.3	1142.2	1047.6
107.5°	109.8	166.1	608.6	1199.4	1180.1
110°	127.1	178.6	561.6	1196.8	1253.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	143.8	191.8	528.4	1148.8	1264.9
115°	159.0	206.3	505.7	1079.0	1235.4
117.5°	174.9	219.1	488.2	1004.8	1177.8
120°	190.7	232.0	476.2	934.5	1102.8
122.5°	205.1	244.8	467.1	878.0	1033.2
125°	218.0	257.0	458.7	827.4	968.9
127.5°	228.6	269.8	452.6	784.9	912.9
130°	238.5	282.0	446.6	745.6	865.2
132.5°	245.3	293.0	442.1	708.6	819.8
135°	254.3	302.4	437.6	671.0	775.2
137.5°	262.7	310.8	432.9	634.7	728.9
140°	270.3	318.4	429.2	599.9	681.2
142.5°	279.4	324.4	424.7	566.9	635.8
145°	289.2	330.4	423.2	537.8	594.3
147.5°	298.3	336.8	420.9	514.4	558.7
150°	308.1	342.2	417.9	494.7	527.6
152.5°	317.9	347.8	414.1	479.6	503.4
155°	327.8	353.5	409.5	465.6	485.2
157.5°	335.3	358.5	405.7	451.9	467.8
160°	344.4	362.6	401.2	439.4	451.2
162.5°	351.2	365.6	396.7	427.7	436.0
165°	358.1	368.2	392.1	416.0	423.2
167.5°	363.4	370.5	387.6	405.8	410.3
170°	367.9	371.6	383.0	396.6	398.9
172.5°	370.9	372.8	379.3	388.7	388.3
175°	373.2	373.6	376.2	381.5	380.8
177.5°	374.7	374.0	374.0	377.0	375.5
180°	374.0	374.0	374.0	374.0	374.0

(END OF REPORT)