

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: P1011867

Luminaire Tested: S123DIP-B560D805UB30-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011867
REPORT IS A COMBINATION OF REPORTS P990188 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B560D805UB30-4F0-XX-W2A-D4
Description: Define 3 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

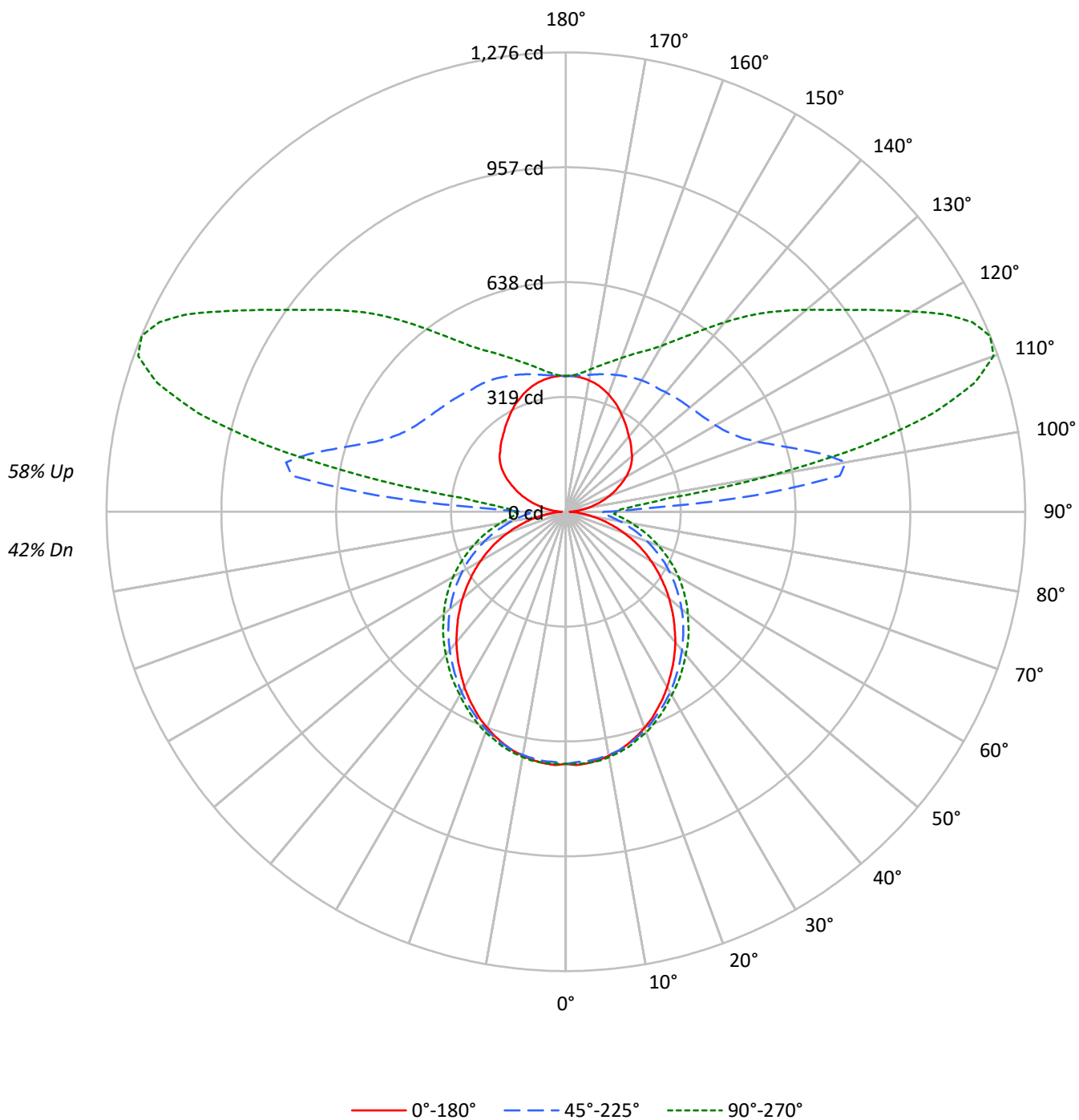
Lumens per Lamp: N/A
Luminaire Lumens: 5199.6 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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°	7539	7539	7539
5°	7560	7318	7312
10°	7489	7120	7065
15°	7390	6901	6804
20°	7249	6657	6523
25°	7077	6382	6232
30°	6899	6133	5940
35°	6700	5873	5702
40°	6511	5634	5451
45°	6300	5403	5243
50°	6091	5174	5018
55°	5862	4940	4812
60°	5637	4699	4600
65°	5405	4444	4351
70°	5056	4156	4096
75°	4614	3828	3832
80°	4099	3498	3531
85°	3592	3230	3314

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6300 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.4	1.3
10°-20°	189.4	3.6
20°-30°	283.3	5.4
30°-40°	338.2	6.5
40°-50°	353.8	6.8
50°-60°	332.1	6.4
60°-70°	277.4	5.3
70°-80°	198.3	3.8
80°-90°	120.1	2.3
90°-100°	288.5	5.5
100°-110°	653.6	12.6
110°-120°	620.5	11.9
120°-130°	485.9	9.3
130°-140°	376.5	7.2
140°-150°	275.9	5.3
150°-160°	191.1	3.7
160°-170°	112.3	2.2
170°-180°	36.5	0.7
0°-30°	539.1	10.4
0°-40°	877.3	16.9
0°-60°	1563.2	30.1
0°-90°	2159.0	41.5
90°-120°	1562.5	30.1
90°-150°	2700.7	51.9
90°-180°	3041.0	58.5
0°-180°	5199.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	700	700	700	700	700	
5°	701	700	695	701	700	67
15°	668	670	669	677	676	188
25°	603	610	613	623	623	278
35°	519	531	541	552	556	324
45°	424	442	462	476	482	327
55°	324	349	376	397	403	290
65°	224	253	287	310	317	221
75°	121	157	195	220	230	130
85°	37	76	116	142	150	38
90°	11	56	105	134	142	9
95°	34	122	528	231	195	34
105°	95	155	671	1152	1057	100
115°	160	208	510	1088	1246	159
125°	220	259	463	834	977	196
135°	256	305	441	677	782	198
145°	292	333	427	542	599	183
155°	331	356	413	470	489	152
165°	361	371	396	420	427	102
175°	376	377	379	385	384	36
180°	377	377	377	377	377	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	700.4	700.4	700.4	700.4	700.4
2.5°	704.2	702.0	695.9	702.0	701.2
5°	701.2	699.7	695.1	701.2	700.4
7.5°	695.9	695.9	691.3	698.9	698.1
10°	688.2	689.7	685.9	693.6	692.0
12.5°	679.1	681.4	679.1	685.9	684.4
15°	667.6	669.9	669.1	676.8	676.0
17.5°	653.9	658.5	657.7	664.6	663.0
20°	638.6	643.2	644.7	651.6	652.4
22.5°	622.6	627.2	629.5	638.6	637.9
25°	602.8	610.4	612.7	622.6	622.6
27.5°	583.7	592.1	596.7	605.1	605.8
30°	563.1	573.0	579.1	588.3	588.3
32.5°	540.2	551.6	560.0	570.0	572.2
35°	518.8	531.0	541.0	552.4	555.5
37.5°	495.9	509.7	521.1	534.1	536.4
40°	473.1	486.8	502.1	515.0	518.1
42.5°	447.9	465.4	481.5	495.9	500.5
45°	424.2	442.5	461.6	476.1	482.2
47.5°	399.0	419.6	441.0	457.0	461.6
50°	374.6	396.0	419.6	437.2	442.5
52.5°	348.7	371.6	398.3	416.6	423.5
55°	323.5	348.7	376.2	396.8	402.9
57.5°	299.1	325.0	354.8	375.4	382.3
60°	273.2	300.6	331.9	353.3	361.7
62.5°	248.7	277.0	310.5	331.9	339.5
65°	223.6	253.3	286.9	309.8	317.4
67.5°	198.4	229.7	263.2	288.4	294.5
70°	171.7	204.5	241.1	265.5	273.2
72.5°	147.3	180.1	218.2	243.4	251.0
75°	121.3	157.2	195.3	220.5	229.7
77.5°	99.2	135.1	173.2	199.9	206.8
80°	75.5	112.9	152.6	178.5	186.2
82.5°	54.9	93.1	133.5	159.5	167.1
85°	37.4	75.5	116.0	141.9	149.5
87.5°	22.9	61.0	100.0	125.9	133.5
90°	11.4	56.4	105.3	133.6	141.9
92.5°	20.7	87.8	222.1	153.8	152.7
95°	34.4	122.4	528.2	231.2	195.4
97.5°	48.8	131.7	767.3	425.9	283.2
100°	63.4	137.8	789.4	783.2	574.8
102.5°	78.6	145.4	735.2	1013.5	848.9
105°	94.7	155.4	671.0	1152.0	1056.6
107.5°	110.7	167.6	613.7	1209.6	1190.2
110°	128.3	180.2	566.4	1207.0	1264.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	145.1	193.6	532.9	1158.4	1275.7
115°	160.3	208.1	509.9	1088.3	1246.0
117.5°	176.3	221.0	492.4	1013.4	1187.9
120°	192.4	234.0	480.1	942.4	1112.3
122.5°	206.9	247.0	471.0	885.6	1042.1
125°	219.9	259.2	462.6	834.4	977.2
127.5°	230.6	272.1	456.5	791.8	920.7
130°	240.5	284.4	450.4	752.0	872.6
132.5°	247.3	295.4	445.9	714.6	826.7
135°	256.5	305.0	441.3	676.8	781.8
137.5°	264.9	313.4	436.7	640.1	735.2
140°	272.6	321.0	432.9	605.0	687.1
142.5°	281.7	327.2	428.3	571.8	641.3
145°	291.7	333.2	426.8	542.4	599.3
147.5°	300.8	339.8	424.5	518.8	563.4
150°	310.7	345.0	421.4	499.0	532.1
152.5°	320.6	350.8	417.6	483.6	507.7
155°	330.6	356.5	413.0	469.5	489.4
157.5°	338.2	361.5	409.2	455.8	471.8
160°	347.4	365.7	404.6	443.2	455.0
162.5°	354.2	368.8	400.0	431.4	439.7
165°	361.1	371.4	395.5	419.5	426.8
167.5°	366.5	373.7	390.9	409.2	413.8
170°	371.0	374.8	386.3	400.0	402.3
172.5°	374.1	376.0	382.5	392.0	391.6
175°	376.4	376.8	379.4	384.8	384.0
177.5°	377.9	377.1	377.1	380.2	378.7
180°	377.1	377.1	377.1	377.1	377.1

(END OF REPORT)