

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: P1011429

Luminaire Tested: S123DIP-B1165D805UB30-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011429
REPORT IS A COMBINATION OF REPORTS P989588 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1165D805UB30-4F0-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

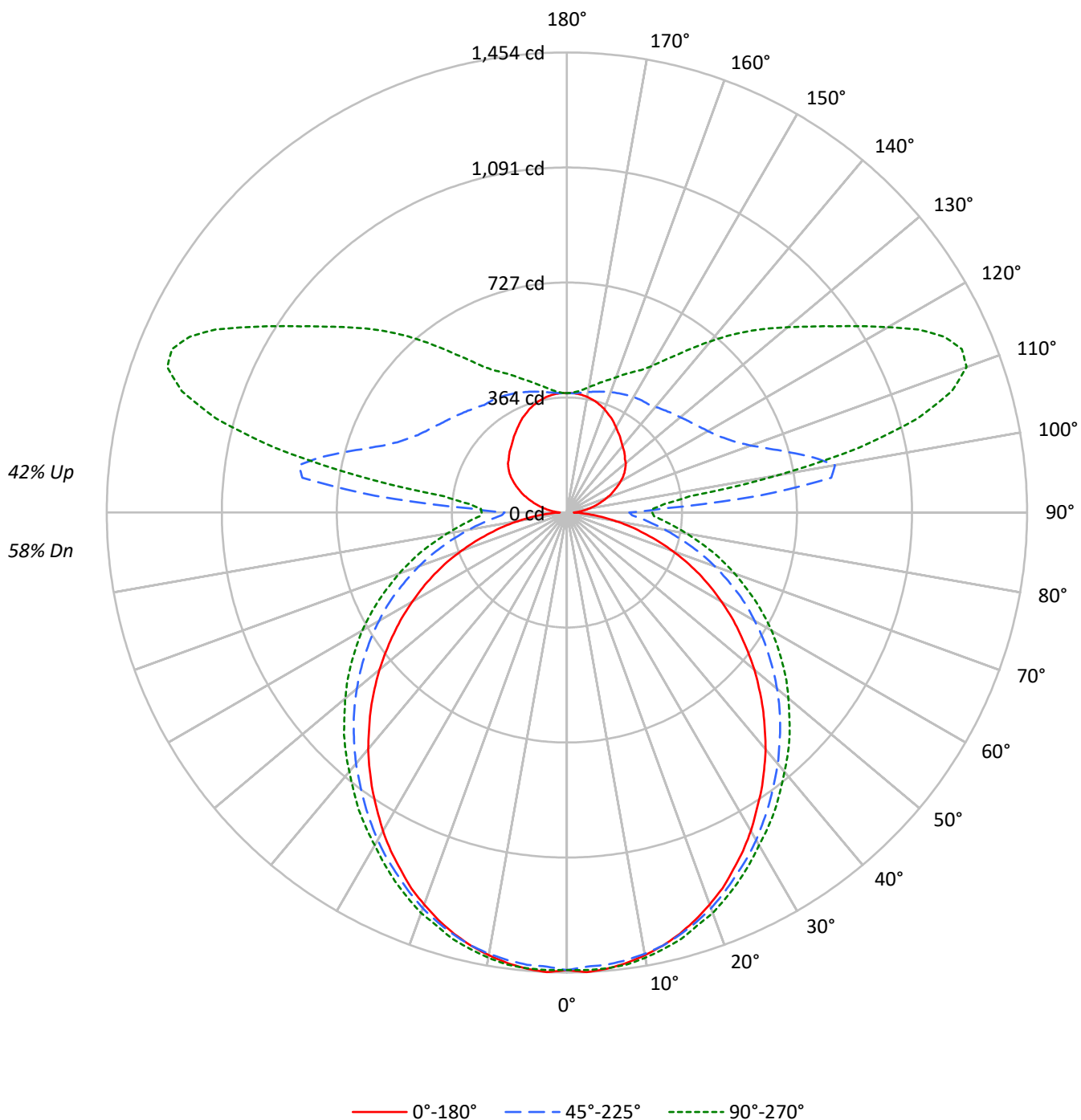
Lumens per Lamp: N/A
Luminaire Lumens: 7705.6 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 82.4
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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63
1	98	93	89	85	91	87	83	80	75	72	70	64	62	60	54	52	51
2	89	81	74	69	83	75	69	64	65	61	57	56	52	49	47	44	42
3	81	71	63	57	75	66	59	53	57	52	47	49	45	41	41	38	35
4	74	62	54	48	68	58	51	45	50	45	40	43	39	35	37	33	30
5	68	55	47	41	63	52	44	38	45	39	34	39	34	30	33	29	26
6	62	50	41	35	58	47	39	33	41	34	30	35	30	26	30	26	23
7	58	45	37	31	53	42	34	29	37	31	26	32	27	23	27	23	20
8	54	41	33	27	50	38	31	26	33	27	23	29	24	21	25	21	18
9	50	37	29	24	46	35	28	23	31	25	21	27	22	18	23	19	16
10	47	34	27	22	43	32	25	21	28	23	19	25	20	17	21	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15566	15566	15566
5°	15608	15109	15097
10°	15462	14700	14588
15°	15258	14248	14048
20°	14967	13744	13467
25°	14610	13176	12866
30°	14243	12663	12263
35°	13834	12125	11772
40°	13442	11631	11252
45°	13007	11155	10825
50°	12578	10683	10361
55°	12102	10197	9933
60°	11636	9701	9496
65°	11159	9174	8984
70°	10437	8581	8455
75°	9529	7906	7911
80°	8469	7223	7290
85°	7415	6667	6844

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13007 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.2	1.8
10°-20°	391.1	5.1
20°-30°	584.8	7.6
30°-40°	698.2	9.1
40°-50°	730.6	9.5
50°-60°	685.6	8.9
60°-70°	572.6	7.4
70°-80°	409.5	5.3
80°-90°	245.7	3.2
90°-100°	367.4	4.8
100°-110°	711.6	9.2
110°-120°	659.3	8.6
120°-130°	508.0	6.6
130°-140°	386.4	5.0
140°-150°	277.9	3.6
150°-160°	191.1	2.5
160°-170°	112.3	1.5
170°-180°	36.5	0.5
0°-30°	1113.0	14.4
0°-40°	1811.3	23.5
0°-60°	3227.4	41.9
0°-90°	4455.2	57.8
90°-120°	1738.2	22.6
90°-150°	2910.5	37.8
90°-180°	3250.0	42.2
0°-180°	7705.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1446	1446	1446	1446	1446	
5°	1448	1444	1435	1448	1446	137
15°	1378	1383	1382	1397	1396	388
25°	1244	1260	1265	1285	1285	574
35°	1071	1096	1117	1140	1147	670
45°	876	914	953	983	996	675
55°	668	720	777	819	832	598
65°	462	523	592	640	655	456
75°	250	324	403	455	474	268
85°	77	156	239	293	309	79
90°	22	107	197	253	269	17
95°	43	163	609	337	309	41
105°	101	181	732	1236	1148	107
115°	164	222	553	1151	1315	163
125°	222	262	489	877	1026	198
135°	258	306	451	701	810	199
145°	292	333	427	549	609	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°	1446.1	1446.1	1446.1	1446.1	1446.1
2.5°	1454.0	1449.2	1436.6	1449.2	1447.7
5°	1447.7	1444.5	1435.1	1447.7	1446.1
7.5°	1436.6	1436.6	1427.2	1442.9	1441.4
10°	1420.9	1424.0	1416.2	1431.9	1428.8
12.5°	1402.0	1406.7	1402.0	1416.2	1413.0
15°	1378.4	1383.1	1381.5	1397.3	1395.7
17.5°	1350.0	1359.5	1357.9	1372.1	1368.9
20°	1318.5	1327.9	1331.1	1345.3	1346.8
22.5°	1285.4	1294.9	1299.6	1318.5	1316.9
25°	1244.5	1260.2	1264.9	1285.4	1285.4
27.5°	1205.1	1222.4	1231.9	1249.2	1250.8
30°	1162.5	1183.0	1195.6	1214.5	1214.5
32.5°	1115.3	1138.9	1156.2	1176.7	1181.4
35°	1071.2	1096.4	1116.9	1140.5	1146.8
37.5°	1023.9	1052.3	1075.9	1102.7	1107.4
40°	976.7	1005.0	1036.5	1063.3	1069.6
42.5°	924.7	960.9	994.0	1023.9	1033.4
45°	875.8	913.7	953.0	983.0	995.6
47.5°	823.9	866.4	910.5	943.6	953.0
50°	773.5	817.6	866.4	902.6	913.7
52.5°	719.9	767.2	822.3	860.1	874.3
55°	667.9	719.9	776.6	819.1	831.7
57.5°	617.5	671.1	732.5	775.0	789.2
60°	563.9	620.7	685.2	729.3	746.7
62.5°	513.5	571.8	641.1	685.2	701.0
65°	461.6	523.0	592.3	639.6	655.3
67.5°	409.6	474.2	543.5	595.4	608.1
70°	354.4	422.2	497.8	548.2	563.9
72.5°	304.0	371.8	450.5	502.5	518.3
75°	250.5	324.5	403.3	455.3	474.2
77.5°	204.8	278.8	357.6	412.7	426.9
80°	156.0	233.1	315.1	368.6	384.4
82.5°	113.4	192.2	275.7	329.2	345.0
85°	77.2	156.0	239.4	293.0	308.8
87.5°	47.3	126.0	206.4	259.9	275.7
90°	22.0	106.8	197.1	253.0	269.4
92.5°	30.4	132.4	307.4	265.9	272.1
95°	43.3	163.1	608.7	336.8	309.1
97.5°	57.0	169.1	842.8	525.9	391.2
100°	70.7	171.1	860.0	877.4	677.2
102.5°	85.1	174.6	801.0	1102.0	945.6
105°	101.2	181.4	731.9	1235.7	1147.5
107.5°	116.4	190.3	669.8	1287.6	1275.5
110°	133.2	199.6	618.4	1280.1	1343.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	150.0	209.8	580.0	1225.9	1350.4
115°	164.4	221.9	553.0	1150.8	1315.0
117.5°	180.4	231.6	530.5	1071.0	1252.0
120°	195.6	241.3	514.3	995.2	1170.8
122.5°	210.1	251.9	501.1	933.4	1095.7
125°	222.3	261.6	488.6	877.4	1025.9
127.5°	233.0	273.8	478.4	829.8	964.6
130°	242.9	286.1	468.3	785.3	910.7
132.5°	249.0	297.2	459.7	742.9	860.9
135°	258.2	305.8	451.0	701.2	810.2
137.5°	266.6	314.2	443.2	659.6	758.8
140°	273.4	321.8	436.1	620.4	706.6
142.5°	282.5	327.2	428.3	582.4	656.0
145°	292.5	333.2	426.8	548.9	609.0
147.5°	300.8	339.8	424.5	521.2	569.1
150°	310.7	345.0	421.4	499.0	533.8
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)