

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: P1011260

Luminaire Tested: S123DIP-B1165D1025UB35-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011260
REPORT IS A COMBINATION OF REPORTS P989356 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1165D1025UB35-4F0-XX-W2A-D1
Description: Define 3 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

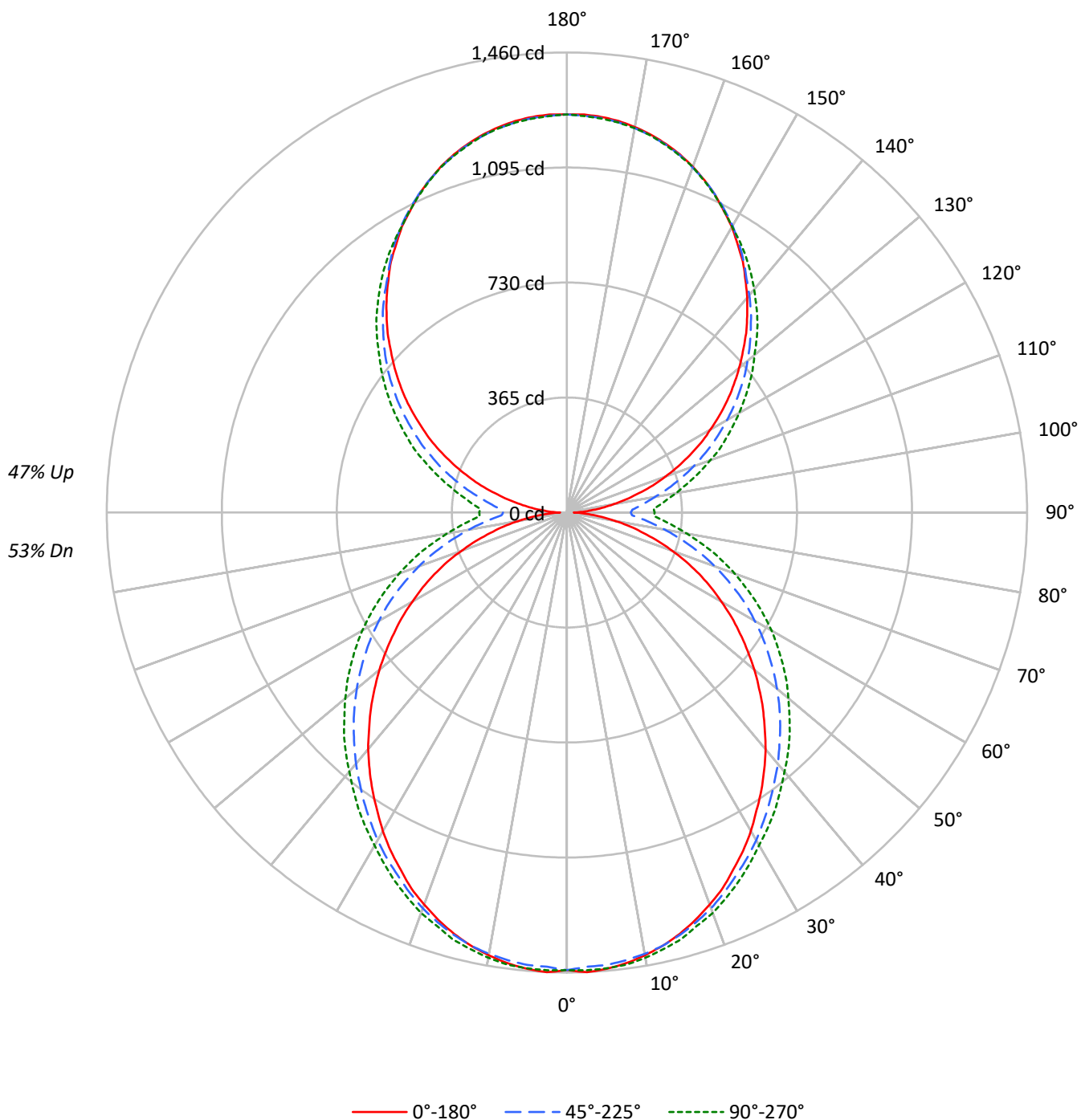
Lumens per Lamp: N/A
Luminaire Lumens: 8384.0 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 89.8
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
RCR																	
0	108	108	108	108	100	100	100	100	85	85	85		72	72	72		59
1	97	93	88	84	90	86	82	79	73	70	68		61	59	57		51
2	88	80	74	68	81	74	69	64	63	59	55		53	50	47		44
3	80	70	62	56	74	65	58	53	56	50	46		47	43	39		39
4	73	62	54	47	67	57	50	44	49	43	39		41	37	33		34
5	67	55	46	40	62	51	44	38	44	38	33		37	32	29		31
6	62	49	41	35	57	46	38	33	39	33	29		33	29	25		28
7	57	44	36	30	53	41	34	29	36	30	25		30	26	22		25
8	53	40	32	27	49	38	30	25	33	27	22		28	23	20		23
9	49	37	29	24	46	34	27	23	30	24	20		25	21	18		21
10	46	34	26	21	43	32	25	20	27	22	18		24	19	16		20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15632	15632	15632
5°	15675	15174	15162
10°	15529	14763	14650
15°	15323	14310	14108
20°	15032	13803	13526
25°	14672	13234	12922
30°	14306	12718	12317
35°	13893	12177	11822
40°	13500	11682	11301
45°	13063	11204	10872
50°	12632	10728	10406
55°	12154	10242	9976
60°	11687	9744	9537
65°	11204	9214	9022
70°	10484	8617	8492
75°	9567	7939	7945
80°	8502	7252	7320
85°	7444	6697	6873

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13063 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.8	1.6
10°-20°	392.8	4.7
20°-30°	587.3	7.0
30°-40°	701.2	8.4
40°-50°	733.7	8.8
50°-60°	688.5	8.2
60°-70°	575.1	6.9
70°-80°	411.2	4.9
80°-90°	247.4	3.0
90°-100°	235.1	2.8
100°-110°	359.2	4.3
110°-120°	494.5	5.9
120°-130°	594.3	7.1
130°-140°	638.9	7.6
140°-150°	613.2	7.3
150°-160°	512.9	6.1
160°-170°	341.4	4.1
170°-180°	119.6	1.4
0°-30°	1117.9	13.3
0°-40°	1819.1	21.7
0°-60°	3241.3	38.7
0°-90°	4475.0	53.4
90°-120°	1088.7	13.0
90°-150°	2935.2	35.0
90°-180°	3909.0	46.6
0°-180°	8384.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1452	1452	1452	1452	1452	
5°	1454	1451	1441	1454	1452	138
15°	1384	1389	1388	1403	1402	390
25°	1250	1266	1270	1291	1291	576
35°	1076	1101	1122	1145	1152	673
45°	880	918	957	987	1000	678
55°	671	723	780	823	835	601
65°	464	525	595	642	658	458
75°	252	326	405	457	476	269
85°	78	157	240	294	310	80
90°	22	109	203	260	278	19
95°	76	145	230	283	299	78
105°	236	276	353	397	413	252
115°	430	452	506	546	557	426
125°	622	625	669	698	705	555
135°	804	808	825	849	855	620
145°	973	974	976	988	990	607
155°	1112	1112	1113	1117	1110	512
165°	1212	1209	1209	1215	1208	342
175°	1260	1256	1256	1262	1255	120
180°	1263	1263	1263	1263	1263	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1452.3	1452.3	1452.3	1452.3	1452.3
2.5°	1460.3	1455.5	1442.8	1455.5	1453.9
5°	1453.9	1450.8	1441.3	1453.9	1452.3
7.5°	1442.8	1442.8	1433.4	1449.2	1447.6
10°	1427.0	1430.2	1422.3	1438.1	1434.9
12.5°	1408.0	1412.8	1408.0	1422.3	1419.1
15°	1384.3	1389.1	1387.5	1403.3	1401.7
17.5°	1355.8	1365.3	1363.7	1378.0	1374.8
20°	1324.2	1333.7	1336.8	1351.1	1352.7
22.5°	1291.0	1300.5	1305.2	1324.2	1322.6
25°	1249.8	1265.7	1270.4	1291.0	1291.0
27.5°	1210.3	1227.7	1237.2	1254.6	1256.2
30°	1167.6	1188.1	1200.8	1219.8	1219.8
32.5°	1120.1	1143.8	1161.2	1181.8	1186.6
35°	1075.8	1101.1	1121.7	1145.4	1151.7
37.5°	1028.3	1056.8	1080.6	1107.4	1112.2
40°	980.9	1009.4	1041.0	1067.9	1074.2
42.5°	928.7	965.1	998.3	1028.3	1037.8
45°	879.6	917.6	957.2	987.2	999.9
47.5°	827.4	870.1	914.4	947.7	957.2
50°	776.8	821.1	870.1	906.5	917.6
52.5°	723.0	770.5	825.8	863.8	878.0
55°	670.8	723.0	780.0	822.7	835.3
57.5°	620.2	674.0	735.7	778.4	792.6
60°	566.4	623.3	688.2	732.5	749.9
62.5°	515.8	574.3	643.9	688.2	704.0
65°	463.5	525.2	594.9	642.3	658.1
67.5°	411.3	476.2	545.8	598.0	610.7
70°	356.0	424.0	499.9	550.6	566.4
72.5°	305.3	373.4	452.5	504.7	520.5
75°	251.5	325.9	405.0	457.2	476.2
77.5°	205.7	280.0	359.1	414.5	428.7
80°	156.6	234.1	316.4	370.2	386.0
82.5°	113.9	193.0	276.9	330.7	346.5
85°	77.5	156.6	240.5	294.3	310.1
87.5°	47.5	126.6	207.3	261.0	276.9
90°	21.6	109.0	202.6	260.4	278.2
92.5°	48.8	122.7	207.8	263.0	275.3
95°	75.9	144.6	230.0	283.1	298.9
97.5°	112.1	174.0	254.3	306.7	321.5
100°	149.2	205.8	283.5	332.4	350.1
102.5°	192.3	239.6	317.6	364.9	379.8
105°	236.0	275.9	352.9	397.2	413.4
107.5°	286.0	320.2	389.0	434.7	447.9
110°	332.0	362.5	427.8	472.9	483.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	381.6	404.7	464.9	509.4	523.7
115°	429.7	451.6	506.5	545.5	557.2
117.5°	480.3	494.0	545.8	583.7	593.4
120°	525.3	539.2	586.4	621.8	630.9
122.5°	573.9	581.1	628.1	659.9	668.1
125°	622.0	624.9	668.8	698.1	705.2
127.5°	667.6	672.1	709.6	735.3	742.3
130°	713.3	719.7	748.3	774.4	777.0
132.5°	757.4	765.3	787.1	810.6	816.6
135°	804.0	808.4	824.8	849.3	855.2
137.5°	846.7	850.1	864.2	884.5	889.4
140°	889.8	894.7	900.4	923.2	924.2
142.5°	930.5	933.8	935.8	955.4	958.3
145°	973.1	973.5	976.5	988.2	990.5
147.5°	1008.2	1012.2	1015.2	1019.9	1020.3
150°	1046.9	1048.9	1050.9	1050.9	1048.2
152.5°	1078.7	1081.7	1082.7	1084.7	1079.7
155°	1112.4	1112.4	1113.4	1117.4	1110.5
157.5°	1141.2	1140.2	1141.2	1145.2	1139.2
160°	1168.0	1166.0	1166.0	1171.0	1167.0
162.5°	1191.8	1188.9	1189.8	1194.8	1187.9
165°	1211.7	1208.7	1208.7	1214.7	1207.7
167.5°	1228.6	1224.6	1225.6	1231.5	1225.6
170°	1242.4	1238.5	1238.5	1245.4	1238.5
172.5°	1253.4	1249.4	1249.4	1255.3	1248.4
175°	1260.3	1256.3	1256.3	1262.3	1255.3
177.5°	1264.3	1260.3	1260.3	1266.3	1259.3
180°	1263.3	1263.3	1263.3	1263.3	1263.3

(END OF REPORT)