

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: P1010476

Luminaire Tested: S123DIP-B1165D1025UB2750-4F0-XX-W2A-D_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010476
REPORT IS A COMBINATION OF REPORTS P989335 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1165D1025UB2750-4F0-XX-W2A-D_3500K
Description: Define 3 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

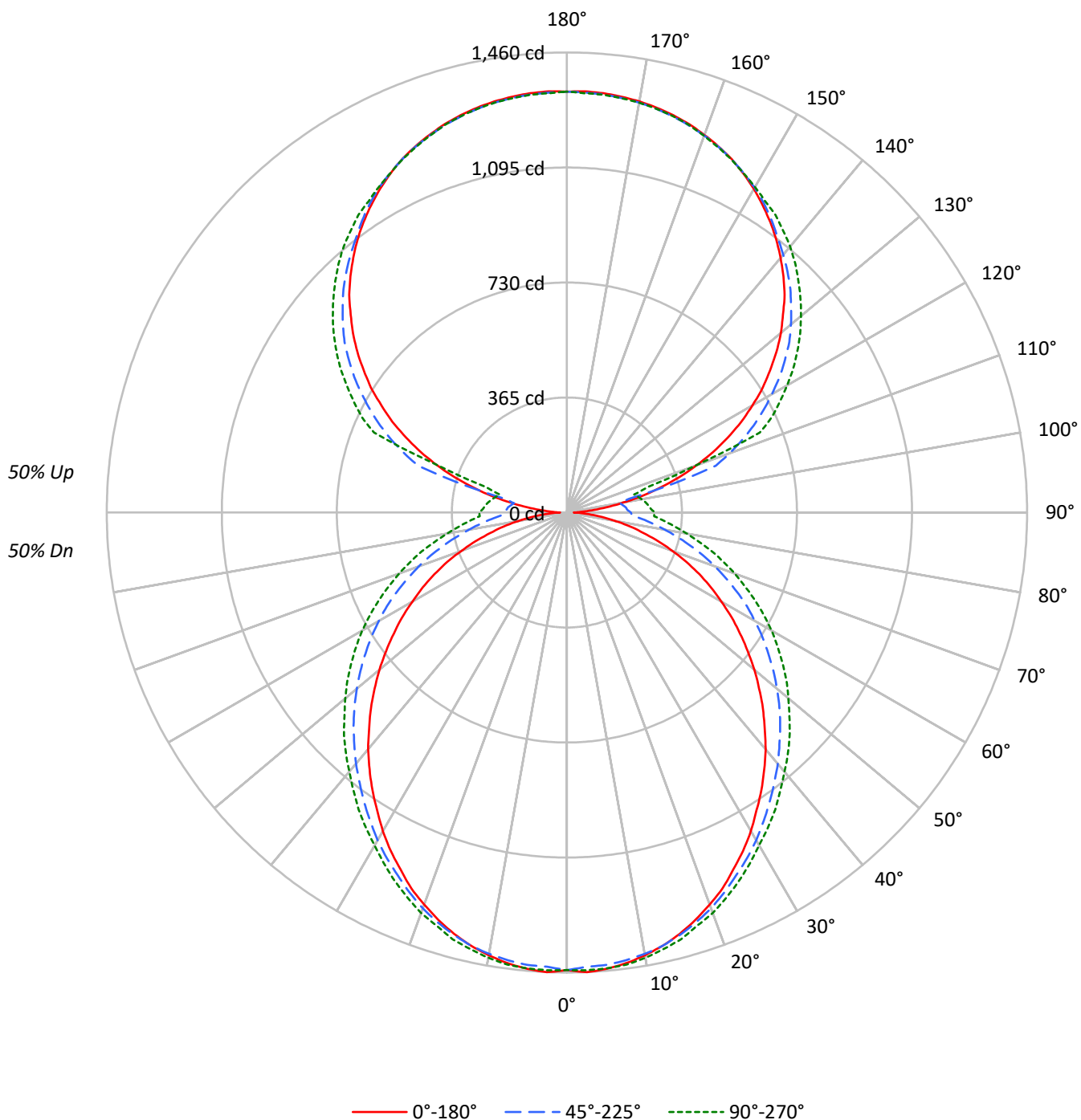
Lumens per Lamp: N/A
Luminaire Lumens: 8956.0 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	30	10	50	30	10
RCR																				
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	56	56	56
1	97	92	88	84	89	85	81	78	71	69	66	59	57	55	48	47	45	45	45	40
2	88	80	73	68	80	74	68	63	62	58	54	51	48	45	42	39	37	37	37	33
3	80	70	62	56	73	64	58	52	54	49	45	45	41	38	36	34	31	31	31	27
4	73	61	53	47	67	57	50	44	48	42	38	40	36	32	32	29	27	27	27	23
5	67	55	46	40	61	51	43	37	43	37	33	36	31	28	29	26	23	23	23	20
6	61	49	41	35	56	45	38	32	39	33	28	32	28	24	26	23	20	20	20	17
7	57	44	36	30	52	41	34	28	35	29	25	29	25	21	24	21	18	18	18	15
8	53	40	32	27	48	37	30	25	32	26	22	27	22	19	22	19	16	16	16	14
9	49	36	29	24	45	34	27	22	29	24	20	25	20	17	20	17	14	14	14	12
10	46	33	26	21	42	31	24	20	27	21	18	23	18	15	19	15	13	13	13	11

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	1.5
10°-20°	392.8	4.4
20°-30°	587.3	6.6
30°-40°	701.2	7.8
40°-50°	733.7	8.2
50°-60°	688.5	7.7
60°-70°	575.1	6.4
70°-80°	411.2	4.6
80°-90°	247.4	2.8
90°-100°	200.9	2.2
100°-110°	340.8	3.8
110°-120°	633.6	7.1
120°-130°	751.5	8.4
130°-140°	776.2	8.7
140°-150°	711.8	7.9
150°-160°	570.9	6.4
160°-170°	368.4	4.1
170°-180°	127.0	1.4
0°-30°	1117.9	12.5
0°-40°	1819.1	20.3
0°-60°	3241.3	36.2
0°-90°	4475.0	50.0
90°-120°	1175.2	13.1
90°-150°	3414.7	38.1
90°-180°	4481.0	50.0
0°-180°	8956.0	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	18
95°	78	99	187	243	259	86
105°	308	357	336	205	221	326
115°	563	588	654	701	718	556
125°	787	795	844	880	893	703
135°	977	981	1002	1034	1039	752
145°	1125	1130	1132	1147	1153	704
155°	1238	1236	1237	1242	1236	570
165°	1305	1302	1301	1309	1302	369
175°	1336	1331	1332	1339	1331	127
180°	1336	1336	1336	1336	1336	

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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°	41.8	103.9	191.9	251.1	266.3
95°	77.9	98.9	187.4	243.4	259.2
97.5°	126.0	155.2	178.9	234.3	251.1
100°	181.9	252.5	170.4	224.2	241.0
102.5°	245.9	303.1	201.5	213.1	231.0
105°	308.4	357.3	336.0	204.7	220.9
107.5°	373.3	415.5	495.3	385.1	269.3
110°	438.2	474.7	548.9	557.2	427.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	501.7	530.8	601.9	650.3	662.7
115°	562.7	587.6	653.5	701.4	718.0
117.5°	624.2	643.8	702.6	748.4	762.1
120°	679.2	696.0	751.2	795.5	806.6
122.5°	736.7	746.9	799.8	839.6	851.7
125°	786.7	794.7	844.5	879.7	892.8
127.5°	838.3	844.8	889.2	923.9	932.9
130°	886.0	892.4	928.0	962.1	969.6
132.5°	930.1	938.1	964.7	997.2	1005.2
135°	976.8	981.1	1002.5	1034.0	1038.9
137.5°	1016.5	1022.8	1035.9	1066.2	1072.1
140°	1054.6	1060.5	1068.2	1096.0	1101.9
142.5°	1091.3	1095.6	1098.6	1122.2	1127.1
145°	1125.0	1130.4	1132.4	1147.0	1153.3
147.5°	1156.2	1161.1	1163.1	1169.8	1171.3
150°	1186.0	1188.9	1190.9	1192.9	1193.1
152.5°	1212.7	1213.7	1214.7	1218.7	1213.7
155°	1237.6	1235.6	1236.6	1241.5	1235.6
157.5°	1257.4	1257.4	1256.4	1262.4	1254.4
160°	1275.3	1274.3	1273.3	1279.2	1272.3
162.5°	1292.1	1289.2	1288.2	1295.1	1289.2
165°	1305.0	1302.1	1301.1	1309.0	1302.1
167.5°	1316.0	1312.0	1312.0	1319.9	1312.0
170°	1324.9	1320.9	1320.9	1328.9	1320.9
172.5°	1330.8	1325.9	1326.9	1334.8	1325.9
175°	1335.8	1330.8	1331.8	1338.8	1330.8
177.5°	1337.8	1332.8	1333.8	1341.8	1331.8
180°	1335.8	1335.8	1335.8	1335.8	1335.8

(END OF REPORT)