

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: P1011041

Luminaire Tested: S123DIP-B1000D1025UB35-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011041
REPORT IS A COMBINATION OF REPORTS P989056 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1000D1025UB35-4F0-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

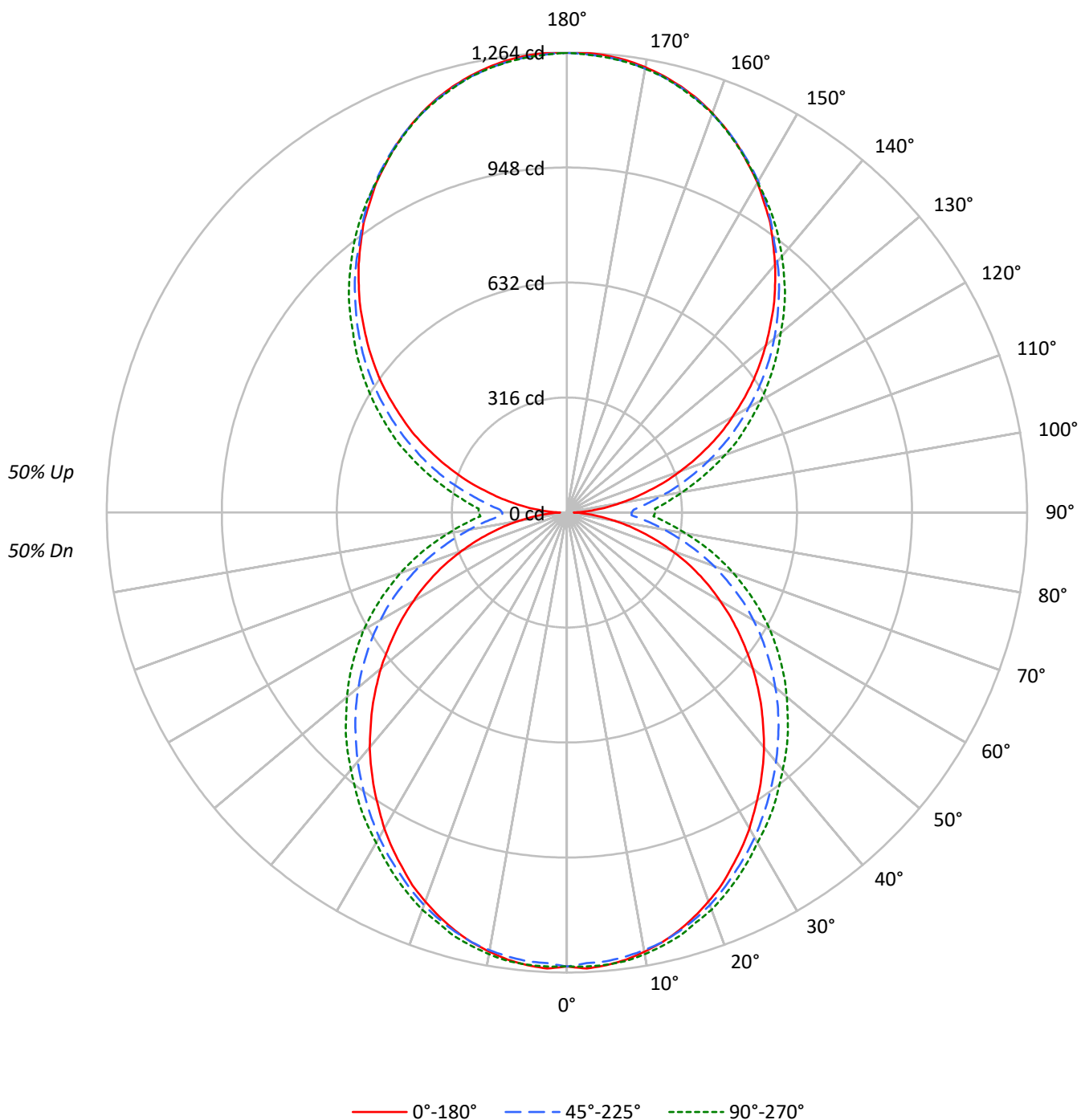
Lumens per Lamp: N/A
Luminaire Lumens: 7695.0 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 75.3
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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56
1	97	92	88	84	89	85	81	78	71	69	66	59	57	55	48	47	45
2	88	80	73	68	80	74	68	63	62	58	54	51	48	45	42	39	37
3	80	70	62	56	73	64	58	52	54	49	45	45	41	38	36	34	31
4	73	61	53	47	67	57	50	44	48	42	38	40	36	32	32	29	27
5	67	55	46	40	61	51	43	37	43	37	33	36	31	28	29	26	23
6	61	49	41	35	56	45	38	32	39	33	28	32	28	24	26	23	20
7	57	44	36	30	52	41	34	28	35	29	25	29	25	21	24	21	18
8	53	40	32	27	48	37	30	25	32	26	22	27	22	19	22	19	16
9	49	36	29	24	45	34	27	22	29	24	20	25	20	17	20	17	14
10	46	33	26	21	42	31	24	20	27	21	18	23	18	15	19	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13426	13426	13426
5°	13463	13032	13021
10°	13337	12679	12583
15°	13160	12289	12116
20°	12910	11855	11616
25°	12602	11366	11098
30°	12287	10923	10578
35°	11931	10459	10154
40°	11594	10033	9706
45°	11220	9621	9337
50°	10848	9214	8937
55°	10439	8796	8568
60°	10037	8369	8190
65°	9624	7913	7749
70°	9003	7402	7293
75°	8217	6818	6823
80°	7302	6228	6287
85°	6397	5750	5902

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11220 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.3	1.5
10°-20°	337.3	4.4
20°-30°	504.4	6.6
30°-40°	602.3	7.8
40°-50°	630.1	8.2
50°-60°	591.3	7.7
60°-70°	493.9	6.4
70°-80°	353.2	4.6
80°-90°	212.8	2.8
90°-100°	213.4	2.8
100°-110°	343.2	4.5
110°-120°	483.8	6.3
120°-130°	588.2	7.6
130°-140°	636.2	8.3
140°-150°	612.6	8.0
150°-160°	512.9	6.7
160°-170°	341.4	4.4
170°-180°	119.6	1.6
0°-30°	960.1	12.5
0°-40°	1562.3	20.3
0°-60°	2783.8	36.2
0°-90°	3843.7	50.0
90°-120°	1040.4	13.5
90°-150°	2877.5	37.4
90°-180°	3851.0	50.0
0°-180°	7695.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1247	1247	1247	1247	1247	
5°	1249	1246	1238	1249	1247	118
15°	1189	1193	1192	1205	1204	335
25°	1073	1087	1091	1109	1109	495
35°	924	946	963	984	989	578
45°	756	788	822	848	859	583
55°	576	621	670	706	717	516
65°	398	451	511	552	565	394
75°	216	280	348	393	409	231
85°	67	134	206	253	266	69
90°	19	95	177	228	243	17
95°	73	133	208	254	268	76
105°	234	269	336	374	388	250
115°	429	448	495	528	538	425
125°	621	624	662	686	692	555
135°	804	808	822	843	847	619
145°	973	974	976	986	988	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°	1247.3	1247.3	1247.3	1247.3	1247.3
2.5°	1254.1	1250.0	1239.2	1250.0	1248.7
5°	1248.7	1246.0	1237.8	1248.7	1247.3
7.5°	1239.2	1239.2	1231.0	1244.6	1243.3
10°	1225.6	1228.3	1221.5	1235.1	1232.4
12.5°	1209.3	1213.4	1209.3	1221.5	1218.8
15°	1188.9	1193.0	1191.6	1205.2	1203.8
17.5°	1164.4	1172.6	1171.2	1183.5	1180.7
20°	1137.3	1145.4	1148.1	1160.4	1161.7
22.5°	1108.7	1116.9	1121.0	1137.3	1135.9
25°	1073.4	1087.0	1091.1	1108.7	1108.7
27.5°	1039.4	1054.4	1062.5	1077.5	1078.8
30°	1002.8	1020.4	1031.3	1047.6	1047.6
32.5°	962.0	982.4	997.3	1015.0	1019.1
35°	923.9	945.7	963.4	983.7	989.2
37.5°	883.2	907.6	928.0	951.1	955.2
40°	842.4	866.9	894.1	917.2	922.6
42.5°	797.6	828.8	857.4	883.2	891.3
45°	755.5	788.1	822.0	847.9	858.7
47.5°	710.6	747.3	785.4	813.9	822.0
50°	667.1	705.2	747.3	778.6	788.1
52.5°	620.9	661.7	709.3	741.9	754.1
55°	576.1	620.9	669.9	706.5	717.4
57.5°	532.6	578.8	631.8	668.5	680.7
60°	486.4	535.3	591.1	629.1	644.0
62.5°	443.0	493.2	553.0	591.1	604.6
65°	398.1	451.1	510.9	551.7	565.2
67.5°	353.3	409.0	468.8	513.6	524.5
70°	305.7	364.1	429.4	472.8	486.4
72.5°	262.2	320.7	388.6	433.4	447.0
75°	216.0	279.9	347.8	392.7	409.0
77.5°	176.6	240.5	308.4	356.0	368.2
80°	134.5	201.1	271.7	317.9	331.5
82.5°	97.8	165.8	237.8	284.0	297.6
85°	66.6	134.5	206.5	252.7	266.3
87.5°	40.8	108.7	178.0	224.2	237.8
90°	18.7	95.1	177.3	227.5	243.1
92.5°	46.1	110.4	184.4	232.2	242.4
95°	73.4	133.4	207.9	254.0	267.6
97.5°	109.9	163.7	233.6	279.2	291.8
100°	147.2	196.6	264.1	306.5	322.0
102.5°	190.5	231.5	299.6	340.6	353.2
105°	234.2	268.8	336.1	374.2	388.4
107.5°	284.4	313.9	373.6	413.2	424.5
110°	330.7	357.1	413.5	452.8	461.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	380.3	400.3	451.9	490.9	503.1
115°	428.6	447.8	494.7	528.3	538.2
117.5°	479.2	491.1	535.3	567.9	575.7
120°	524.4	537.2	577.1	607.3	614.8
122.5°	573.0	579.8	619.9	646.8	653.4
125°	621.4	624.3	661.7	686.3	691.8
127.5°	667.0	671.6	703.6	724.8	730.3
130°	712.7	719.2	743.4	765.2	766.5
132.5°	756.9	764.8	783.3	802.8	807.3
135°	803.5	808.2	822.1	842.6	847.4
137.5°	846.2	849.9	862.4	879.1	882.9
140°	889.6	894.5	899.5	918.9	918.8
142.5°	930.3	933.8	935.8	952.5	954.3
145°	972.9	973.5	976.5	986.4	987.8
147.5°	1008.2	1012.2	1015.2	1019.3	1018.7
150°	1046.9	1048.9	1050.9	1050.9	1047.7
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)