

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: P1012094

Luminaire Tested: S123DIP-B775D805UB35-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012094
REPORT IS A COMBINATION OF REPORTS P990498 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B775D805UB35-4F0-XX-W2A-F
Description: Define 3 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

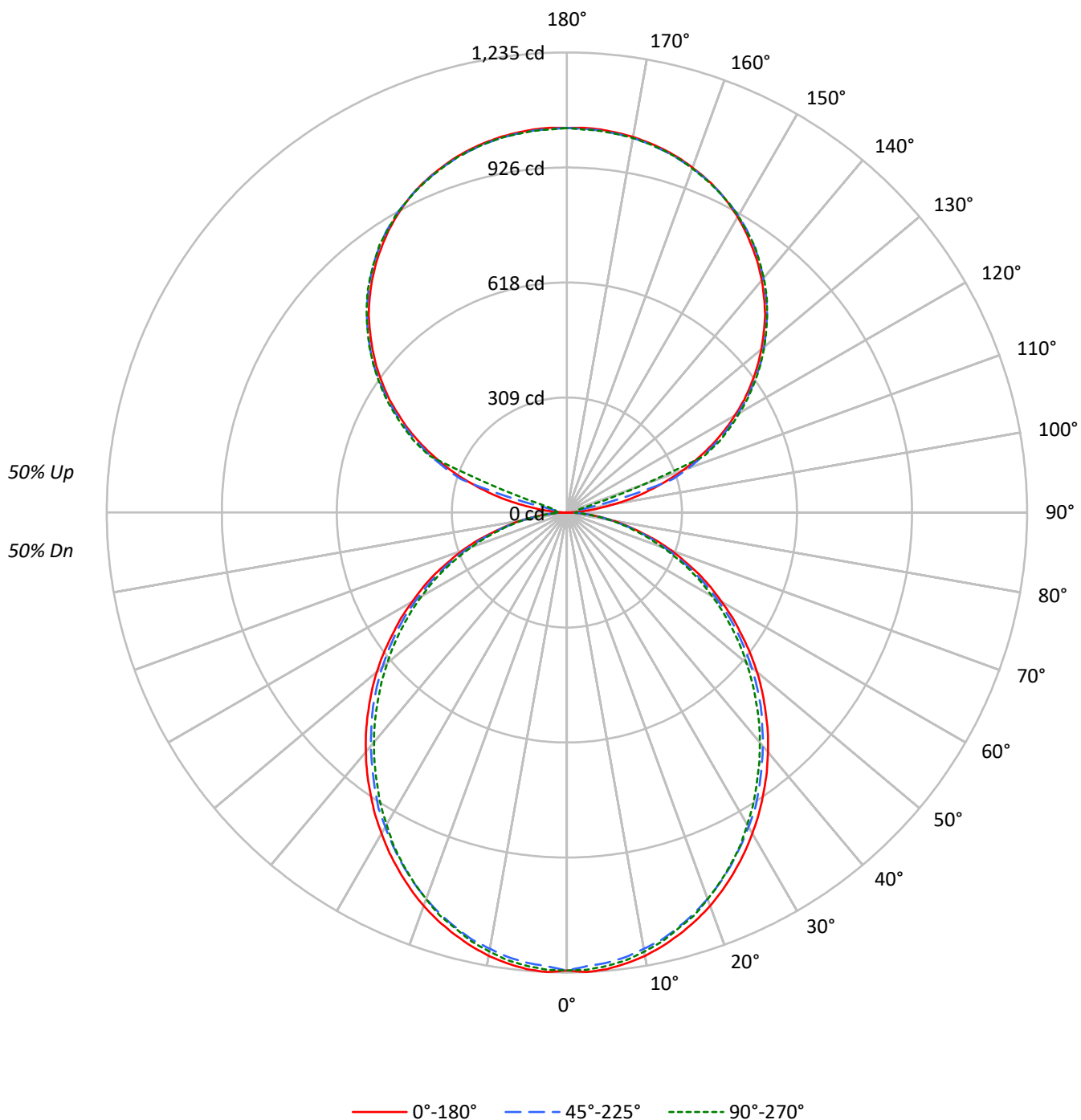
Lumens per Lamp: N/A
Luminaire Lumens: 6349.0 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 57
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	84	84	84	69	69	69	57	57	57
1	98	93	90	86	90	86	83	80	73	71	69	61	59	58	50	49	48
2	89	82	75	70	82	76	70	66	64	60	57	54	51	48	44	42	40
3	81	72	64	58	75	66	60	55	57	52	48	47	44	41	39	36	34
4	74	63	55	49	68	59	52	46	50	45	41	42	38	35	35	32	29
5	68	56	48	42	63	52	45	40	45	39	35	38	34	30	31	28	26
6	63	51	43	37	58	47	40	35	40	35	30	34	30	26	28	25	22
7	58	46	38	32	53	43	35	30	37	31	27	31	27	23	26	23	20
8	54	42	34	28	50	39	32	27	33	28	24	28	24	21	24	20	18
9	50	38	30	25	46	35	29	24	31	25	21	26	22	19	22	19	16
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13235	13235	13235
5°	13268	12778	12759
10°	13150	12346	12219
15°	12967	11895	11631
20°	12757	11396	11047
25°	12486	10870	10424
30°	12190	10325	9768
35°	11879	9767	9117
40°	11552	9183	8475
45°	11195	8612	7806
50°	10832	7977	7134
55°	10364	7316	6452
60°	9882	6586	5728
65°	9430	5797	4971
70°	8779	4922	4090
75°	7844	3897	3175
80°	6775	2739	2245
85°	5283	1473	1124

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11195 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.9	1.8
10°-20°	327.3	5.2
20°-30°	483.4	7.6
30°-40°	564.6	8.9
40°-50°	567.5	8.9
50°-60°	498.6	7.9
60°-70°	371.3	5.8
70°-80°	211.3	3.3
80°-90°	62.1	1.0
90°-100°	36.4	0.6
100°-110°	176.0	2.8
110°-120°	431.3	6.8
120°-130°	547.5	8.6
130°-140°	584.9	9.2
140°-150°	546.9	8.6
150°-160°	441.1	6.9
160°-170°	284.7	4.5
170°-180°	98.1	1.5
0°-30°	926.6	14.6
0°-40°	1491.2	23.5
0°-60°	2557.3	40.3
0°-90°	3202.1	50.4
90°-120°	643.7	10.1
90°-150°	2323.0	36.6
90°-180°	3147.0	49.6
0°-180°	6349.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1230	1230	1230	1230	1230	
5°	1231	1225	1214	1224	1222	117
15°	1171	1167	1153	1162	1156	330
25°	1064	1057	1044	1044	1041	490
35°	920	913	900	893	888	575
45°	754	750	736	723	718	582
55°	572	571	557	546	540	512
65°	390	385	374	366	363	385
75°	206	202	199	194	190	220
85°	55	53	53	51	51	59
90°	1	8	18	22	23	6
95°	47	15	24	29	29	56
105°	228	237	168	32	34	242
115°	429	433	440	448	451	423
125°	604	610	614	615	617	540
135°	752	757	760	762	760	579
145°	868	874	875	877	877	544
155°	956	955	956	959	955	441
165°	1008	1006	1005	1012	1006	285
175°	1032	1028	1029	1035	1028	98
180°	1032	1032	1032	1032	1032	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1229.6	1229.6	1229.6	1229.6	1229.6
2.5°	1234.8	1230.6	1219.0	1229.6	1228.5
5°	1230.6	1225.3	1213.7	1224.3	1222.2
7.5°	1221.1	1215.8	1204.2	1213.7	1212.6
10°	1208.4	1203.1	1189.4	1198.9	1196.8
12.5°	1191.5	1187.3	1174.6	1180.9	1179.9
15°	1171.4	1167.2	1153.4	1161.9	1155.6
17.5°	1149.2	1143.9	1130.2	1136.5	1134.4
20°	1123.8	1117.5	1103.7	1108.0	1104.8
22.5°	1095.3	1088.9	1075.2	1078.4	1074.1
25°	1063.6	1057.2	1043.5	1044.5	1041.4
27.5°	1030.8	1024.5	1009.7	1010.7	1007.5
30°	994.9	989.6	974.8	974.8	967.4
32.5°	958.9	951.5	940.9	933.5	930.4
35°	919.8	913.4	899.7	893.4	888.1
37.5°	880.7	872.2	858.5	851.1	847.9
40°	839.4	833.1	818.3	809.8	805.6
42.5°	798.2	790.8	776.0	767.5	763.3
45°	753.8	749.6	735.8	723.1	717.9
47.5°	710.5	704.1	691.4	678.7	674.5
50°	666.1	660.8	647.0	635.4	629.1
52.5°	619.5	616.4	601.6	592.0	585.7
55°	572.0	570.9	557.2	545.5	540.2
57.5°	527.6	523.3	512.8	502.2	495.8
60°	478.9	477.9	465.2	455.7	450.4
62.5°	435.6	432.4	419.7	410.2	407.0
65°	390.1	384.8	374.3	365.8	362.6
67.5°	341.5	337.3	328.8	321.4	317.2
70°	298.1	291.8	285.5	278.1	272.8
72.5°	252.7	248.4	241.0	234.7	232.6
75°	206.2	201.9	198.8	193.5	190.3
77.5°	164.9	162.8	158.6	154.4	154.4
80°	124.8	121.6	119.5	118.4	118.4
82.5°	85.6	85.6	85.6	83.5	82.5
85°	55.0	52.9	52.9	50.7	50.7
87.5°	27.5	24.3	23.3	22.2	22.2
90°	0.8	8.4	18.4	21.5	23.0
92.5°	17.6	13.0	19.9	25.3	26.1
95°	46.8	15.3	23.8	29.1	29.1
97.5°	85.1	63.7	24.5	30.7	31.4
100°	129.6	144.9	25.3	31.4	32.2
102.5°	180.2	190.2	56.8	31.4	33.0
105°	228.5	237.0	168.0	32.2	33.7
107.5°	279.9	286.8	298.3	180.2	79.8
110°	331.3	337.4	345.9	320.6	210.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	380.4	385.8	394.2	401.1	399.6
115°	428.7	433.3	440.2	447.9	450.9
117.5°	476.3	481.6	485.5	491.6	492.4
120°	520.0	526.9	529.2	535.3	535.3
122.5°	564.4	569.8	572.9	576.7	577.5
125°	604.3	610.5	613.5	615.1	616.6
127.5°	644.2	650.3	654.2	656.5	654.9
130°	681.0	687.2	690.2	693.3	691.8
132.5°	716.3	722.4	724.7	727.8	725.5
135°	752.3	756.9	760.0	762.3	760.0
137.5°	783.0	789.2	790.7	794.5	793.0
140°	813.7	818.3	820.6	823.7	822.1
142.5°	842.1	846.7	849.0	851.3	849.0
145°	868.1	873.5	875.0	876.6	876.6
147.5°	893.5	897.3	898.8	900.4	896.5
150°	916.5	918.8	920.3	921.8	919.5
152.5°	937.2	937.9	938.7	941.8	937.9
155°	956.3	954.8	955.6	959.4	954.8
157.5°	971.7	971.7	970.9	975.5	969.4
160°	985.5	984.7	983.9	988.5	983.2
162.5°	998.5	996.2	995.5	1000.8	996.2
165°	1008.5	1006.2	1005.4	1011.6	1006.2
167.5°	1016.9	1013.9	1013.9	1020.0	1013.9
170°	1023.8	1020.8	1020.8	1026.9	1020.8
172.5°	1028.4	1024.6	1025.4	1031.5	1024.6
175°	1032.3	1028.4	1029.2	1034.6	1028.4
177.5°	1033.8	1030.0	1030.7	1036.9	1029.2
180°	1032.3	1032.3	1032.3	1032.3	1032.3

(END OF REPORT)