

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: P1011216

Luminaire Tested: S123DIP-B1000D805UB35-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011216
REPORT IS A COMBINATION OF REPORTS P989295 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1000D805UB35-4F0-XX-W2A-D
Description: Define 3 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

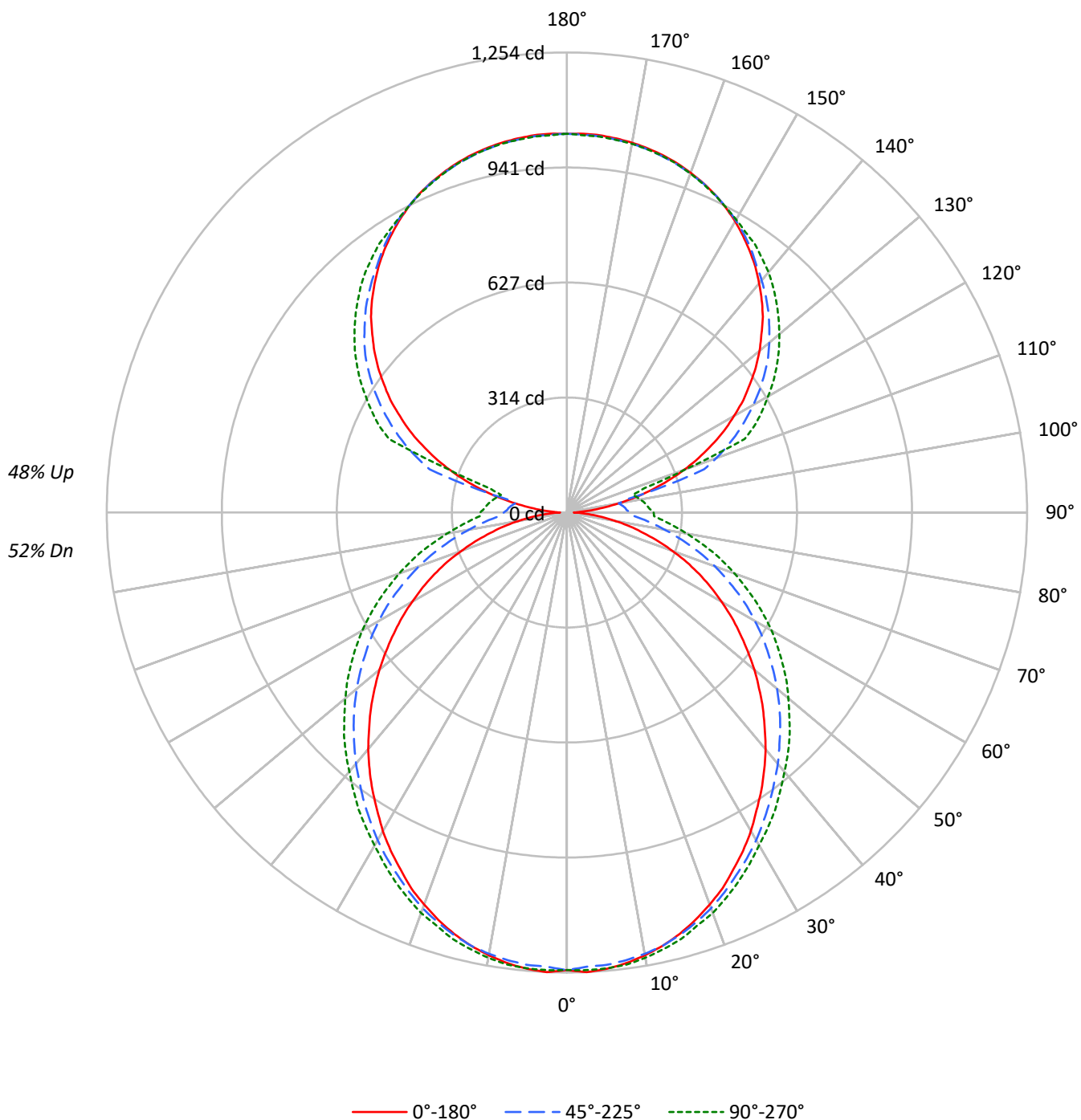
Lumens per Lamp: N/A
Luminaire Lumens: 7341.0 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 67.9
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		71	71	71		58
1	97	92	88	84	90	85	82	78	73	70	67		61	59	57		50
2	88	80	73	68	81	74	68	63	63	59	55		53	49	47		43
3	80	70	62	56	74	65	58	52	55	50	46		46	42	39		38
4	73	62	53	47	67	57	50	44	49	43	39		41	37	33		34
5	67	55	46	40	62	51	43	38	44	38	33		37	32	28		30
6	62	49	41	35	57	46	38	33	39	33	29		33	28	25		27
7	57	44	36	30	52	41	34	29	35	30	25		30	25	22		25
8	53	40	32	27	49	37	30	25	32	26	22		27	23	19		23
9	49	37	29	24	45	34	27	22	30	24	20		25	21	17		21
10	46	34	26	21	42	31	25	20	27	22	18		23	19	16		20

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	1.6
10°-20°	337.3	4.6
20°-30°	504.4	6.9
30°-40°	602.3	8.2
40°-50°	630.1	8.6
50°-60°	591.3	8.1
60°-70°	493.9	6.7
70°-80°	353.2	4.8
80°-90°	212.2	2.9
90°-100°	168.4	2.3
100°-110°	273.1	3.7
110°-120°	496.1	6.8
120°-130°	584.5	8.0
130°-140°	601.5	8.2
140°-150°	550.4	7.5
150°-160°	441.2	6.0
160°-170°	284.7	3.9
170°-180°	98.1	1.3
0°-30°	960.1	13.1
0°-40°	1562.3	21.3
0°-60°	2783.8	37.9
0°-90°	3843.1	52.4
90°-120°	937.6	12.8
90°-150°	2674.0	36.4
90°-180°	3498.0	47.7
0°-180°	7341.0	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°	18	93	172	221	236	15
95°	62	83	158	206	219	68
105°	239	280	270	172	186	253
115°	436	456	512	552	566	431
125°	608	615	657	687	698	544
135°	755	758	776	803	808	581
145°	870	874	875	888	893	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°	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°	18.5	92.6	171.9	221.2	236.3
92.5°	33.9	87.7	162.6	212.8	225.8
95°	61.7	83.2	158.3	205.7	219.3
97.5°	98.7	126.2	150.9	197.8	212.1
100°	141.8	200.6	143.5	189.0	203.4
102.5°	191.1	239.1	166.9	179.5	194.7
105°	239.4	280.5	269.9	172.2	185.9
107.5°	289.4	324.8	392.1	310.6	222.5
110°	339.5	370.0	432.9	442.9	344.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	388.6	413.0	473.0	513.9	524.6
115°	435.5	456.4	512.2	552.5	566.4
117.5°	483.1	499.3	549.4	588.1	599.7
120°	525.4	539.1	586.3	623.6	633.1
122.5°	569.8	578.0	623.2	656.9	667.2
125°	608.4	614.6	657.0	687.1	698.1
127.5°	648.3	653.0	690.9	720.4	728.3
130°	685.1	689.9	720.1	749.0	755.7
132.5°	719.0	725.1	747.8	775.4	782.6
135°	755.0	758.3	776.3	803.1	807.6
137.5°	785.7	790.6	801.6	827.1	832.4
140°	815.1	819.7	826.0	849.5	854.7
142.5°	843.5	846.7	849.0	869.0	873.5
145°	869.5	873.5	875.0	887.5	892.9
147.5°	893.5	897.3	898.8	904.5	906.0
150°	916.5	918.8	920.3	921.8	922.2
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)