

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: P1011654

Luminaire Tested: S123DIP-B340D805UB35-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011654
REPORT IS A COMBINATION OF REPORTS P989895 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B340D805UB35-4F0-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

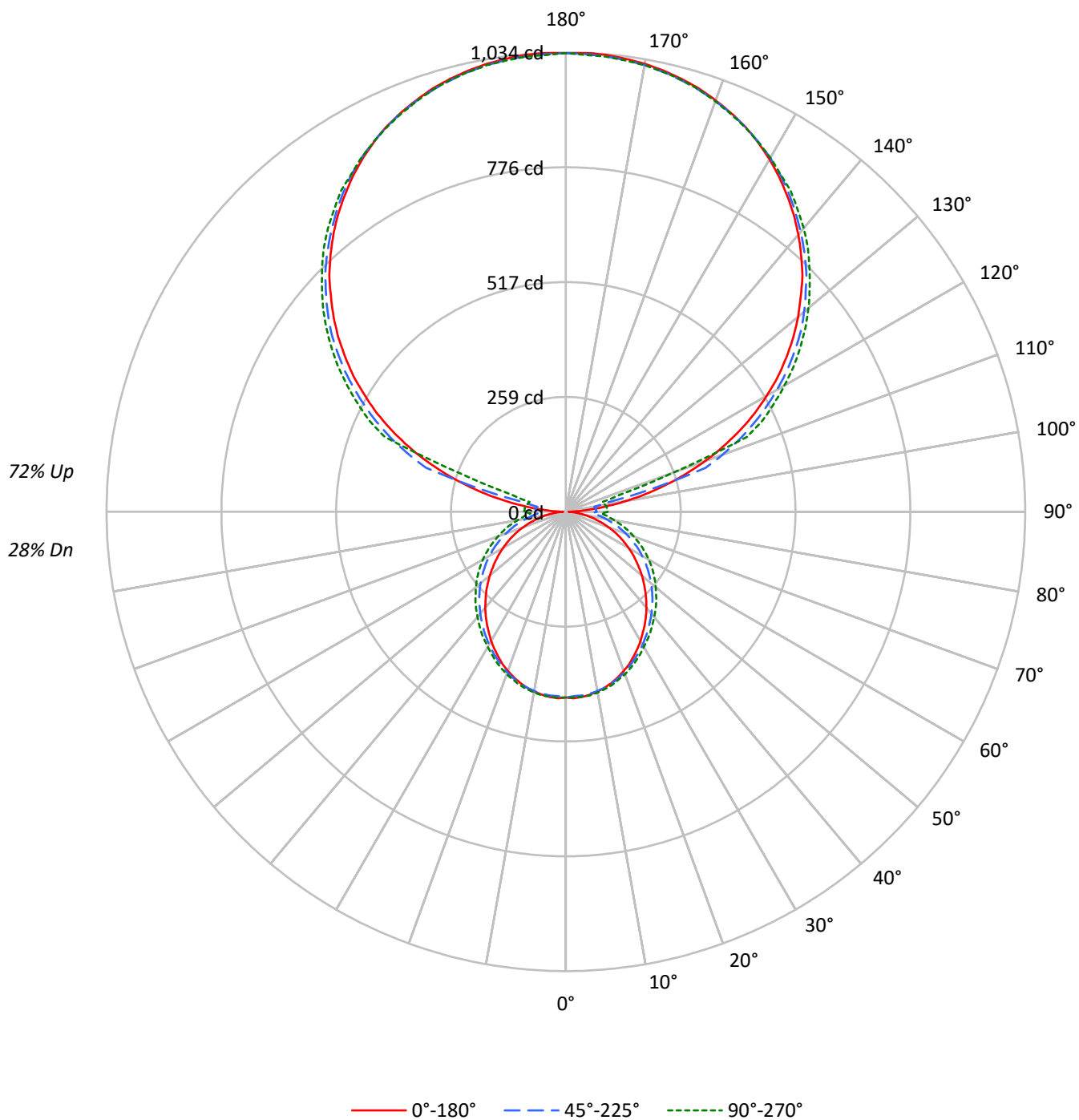
Lumens per Lamp: N/A
Luminaire Lumens: 4554.0 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 34.1
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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36
1	92	88	84	80	82	79	75	72	61	59	57	46	44	43	31	30	29
2	84	76	70	65	75	68	63	59	53	50	47	40	37	35	27	25	24
3	76	67	60	54	68	60	54	49	47	43	39	35	32	29	24	22	20
4	70	59	51	45	62	53	46	41	41	37	33	31	28	25	21	19	17
5	64	52	44	38	57	47	40	35	37	32	28	28	24	21	19	17	15
6	59	47	39	33	52	42	35	30	33	28	24	25	21	19	17	15	13
7	54	42	34	29	48	38	31	26	30	25	21	22	19	16	15	13	12
8	50	38	30	25	44	34	28	23	27	22	19	20	17	14	14	12	10
9	46	34	27	22	41	31	25	20	25	20	17	19	15	13	13	11	9
10	43	31	24	20	39	28	22	18	23	18	15	17	14	12	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4500	4500	4500
5°	4512	4368	4365
10°	4470	4250	4217
15°	4411	4119	4061
20°	4327	3973	3894
25°	4224	3809	3720
30°	4118	3660	3545
35°	4000	3505	3403
40°	3885	3363	3253
45°	3760	3225	3129
50°	3636	3089	2995
55°	3499	2948	2872
60°	3363	2805	2746
65°	3225	2652	2597
70°	3019	2481	2444
75°	2754	2286	2287
80°	2448	2088	2107
85°	2142	1927	1979

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 3760 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.7	0.9
10°-20°	113.1	2.5
20°-30°	169.1	3.7
30°-40°	201.9	4.4
40°-50°	211.2	4.6
50°-60°	198.2	4.4
60°-70°	165.5	3.6
70°-80°	118.4	2.6
80°-90°	72.5	1.6
90°-100°	80.6	1.8
100°-110°	208.5	4.6
110°-120°	453.0	9.9
120°-130°	559.9	12.3
130°-140°	590.4	13.0
140°-150°	548.1	12.0
150°-160°	441.2	9.7
160°-170°	284.7	6.3
170°-180°	98.1	2.2
0°-30°	321.8	7.1
0°-40°	523.6	11.5
0°-60°	933.0	20.5
0°-90°	1289.4	28.3
90°-120°	742.2	16.3
90°-150°	2440.6	53.6
90°-180°	3265.0	71.7
0°-180°	4554.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	418	418	418	418	418	
5°	418	418	415	418	418	40
15°	398	400	399	404	404	112
25°	360	364	366	372	372	166
35°	310	317	323	330	332	194
45°	253	264	276	284	288	195
55°	193	208	224	237	240	173
65°	133	151	171	185	189	132
75°	72	94	117	132	137	77
85°	22	45	69	85	89	23
90°	7	37	70	88	94	7
95°	52	38	69	88	93	60
105°	232	252	202	79	85	246
115°	431	441	464	483	490	426
125°	606	612	628	639	644	541
135°	753	757	766	776	776	580
145°	869	874	875	880	882	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°	418.1	418.1	418.1	418.1	418.1
2.5°	420.3	419.0	415.3	419.0	418.5
5°	418.5	417.6	414.9	418.5	418.1
7.5°	415.3	415.3	412.6	417.1	416.7
10°	410.8	411.7	409.4	414.0	413.0
12.5°	405.3	406.7	405.3	409.4	408.5
15°	398.5	399.8	399.4	403.9	403.5
17.5°	390.3	393.0	392.6	396.7	395.7
20°	381.2	383.9	384.8	388.9	389.4
22.5°	371.6	374.3	375.7	381.2	380.7
25°	359.8	364.3	365.7	371.6	371.6
27.5°	348.4	353.4	356.1	361.1	361.6
30°	336.1	342.0	345.6	351.1	351.1
32.5°	322.4	329.3	334.3	340.2	341.6
35°	309.7	317.0	322.9	329.7	331.5
37.5°	296.0	304.2	311.0	318.8	320.1
40°	282.3	290.5	299.7	307.4	309.2
42.5°	267.3	277.8	287.4	296.0	298.7
45°	253.2	264.1	275.5	284.2	287.8
47.5°	238.2	250.5	263.2	272.8	275.5
50°	223.6	236.4	250.5	260.9	264.1
52.5°	208.1	221.8	237.7	248.6	252.7
55°	193.1	208.1	224.5	236.8	240.5
57.5°	178.5	194.0	211.8	224.1	228.2
60°	163.0	179.4	198.1	210.9	215.9
62.5°	148.5	165.3	185.3	198.1	202.7
65°	133.4	151.2	171.2	184.9	189.4
67.5°	118.4	137.1	157.1	172.1	175.8
70°	102.5	122.0	143.9	158.5	163.0
72.5°	87.9	107.5	130.2	145.3	149.8
75°	72.4	93.8	116.6	131.6	137.1
77.5°	59.2	80.6	103.4	119.3	123.4
80°	45.1	67.4	91.1	106.6	111.1
82.5°	32.8	55.6	79.7	95.2	99.7
85°	22.3	45.1	69.2	84.7	89.3
87.5°	13.7	36.4	59.7	75.1	79.7
90°	6.7	36.6	69.9	88.4	94.5
92.5°	23.1	38.0	67.7	88.1	93.0
95°	51.8	38.1	68.9	88.3	92.9
97.5°	89.7	84.6	66.9	86.7	92.0
100°	133.7	163.6	64.9	84.2	89.6
102.5°	183.8	206.6	93.7	81.0	87.2
105°	232.1	251.6	202.2	79.1	84.7
107.5°	283.1	299.6	329.7	223.9	127.6
110°	334.0	348.3	375.0	361.6	255.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	383.1	394.9	420.6	438.9	441.5
115°	431.0	441.0	464.3	483.0	489.6
117.5°	478.6	487.5	506.9	523.9	528.4
120°	521.8	531.0	548.3	564.9	568.1
122.5°	566.2	572.5	589.7	603.6	607.6
125°	605.7	611.9	628.1	639.2	643.9
127.5°	645.6	651.2	666.5	677.9	679.5
130°	682.4	688.1	700.2	712.0	713.2
132.5°	717.2	723.3	732.4	743.7	744.6
135°	753.2	757.4	765.5	776.0	775.9
137.5°	783.9	789.7	794.3	805.4	806.2
140°	814.2	818.8	822.4	832.4	833.0
142.5°	842.6	846.7	849.0	857.2	857.2
145°	868.6	873.5	875.0	880.2	882.1
147.5°	893.5	897.3	898.8	901.8	899.7
150°	916.5	918.8	920.3	921.8	920.4
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)